



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 1 of 354

TEST REPORT

Application No.: FYCR2211000472AT
Applicant: Vanstone Electronic (Beijing) Co., Ltd.
Address of Applicant: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195, China
Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.
Address of Manufacturer: 3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing 100195, China
Equipment Under Test (EUT):
EUT Name: Android MiniPOS Terminal
Model No.: A80
FCC ID: OWL-A80-A
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-11-21
Date of Test: 2022-11-22 to 2022-12-06
Date of Issue: 2023-03-13

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang

Winkey Wang
EMC Technical Manager



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Shenzhen Branch

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 2 of 354

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-03-13		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 3 of 354

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass

Remark: KDB 789033 D02 is not accredited by A2LA



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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	7
4.1 DETAILS OF E.U.T.	7
4.2 DESCRIPTION OF SUPPORT UNITS	8
4.3 MEASUREMENT UNCERTAINTY	8
4.4 TEST LOCATION	9
4.5 TEST FACILITY	9
4.6 DEVIATION FROM STANDARDS	9
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	9
5 EQUIPMENT LIST	10
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	15
6.1 ANTENNA REQUIREMENT	15
6.1.1 Test Requirement:	15
6.1.2 Conclusion	15
6.2 TRANSMISSION IN THE ABSENCE OF DATA	16
6.2.1 Test Requirement:	16
6.2.2 Conclusion	16
7 RADIO SPECTRUM MATTER TEST RESULTS	17
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	17
7.1.1 E.U.T. Operation	17
7.1.2 Test Mode Description	18
7.1.3 Test Setup Diagram	19
7.1.4 Measurement Procedure and Data	19
7.2 DUTY CYCLE	22
7.2.1 E.U.T. Operation	22
7.2.2 Test Mode Description	22
7.2.3 Test Setup Diagram	23
7.2.4 Measurement Procedure and Data	23
7.3 99% BANDWIDTH	24
7.3.1 E.U.T. Operation	24
7.3.2 Test Mode Description	24
7.3.3 Test Setup Diagram	25
7.3.4 Measurement Procedure and Data	25
7.4 26dB EMISSION BANDWIDTH	26
7.4.1 E.U.T. Operation	26
7.4.2 Test Mode Description	26
7.4.3 Test Setup Diagram	27



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 5 of 354

7.4.4	Measurement Procedure and Data.....	27
7.5	MINIMUM 6 dB BANDWIDTH (5.725-5.85 GHz BAND)	28
7.5.1	E.U.T. Operation	28
7.5.2	Test Mode Description	28
7.5.3	Test Setup Diagram	28
7.5.4	Measurement Procedure and Data.....	29
7.6	MAXIMUM CONDUCTED OUTPUT POWER	30
7.6.1	E.U.T. Operation	30
7.6.2	Test Mode Description	30
7.6.3	Test Setup Diagram	32
7.6.4	Measurement Procedure and Data.....	32
7.7	PEAK POWER SPECTRUM DENSITY	33
7.7.1	E.U.T. Operation	33
7.7.2	Test Mode Description	33
7.7.3	Test Setup Diagram	34
7.7.4	Measurement Procedure and Data.....	34
7.8	RADIATED EMISSIONS (ABOVE 1GHz)	35
7.8.1	E.U.T. Operation	35
7.8.2	Test Mode Description	35
7.8.3	Test Setup Diagram	37
7.8.4	Measurement Procedure and Data.....	38
7.9	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	87
7.9.1	E.U.T. Operation	87
7.9.2	Test Mode Description	88
7.9.3	Test Setup Diagram	89
7.9.4	Measurement Procedure and Data.....	90
7.10	FREQUENCY STABILITY	185
7.10.1	E.U.T. Operation.....	185
7.10.2	Test Mode Description	185
7.10.3	Test Setup Diagram	186
7.10.4	Measurement Procedure and Data.....	186
7.11	NON-OCCUPANCY PERIOD	187
7.11.1	E.U.T. Operation.....	188
7.11.2	Test Mode Description	188
7.11.3	Test Setup Diagram	188
7.11.4	Measurement Procedure and Data.....	189
7.12	CHANNEL MOVE TIME	190
7.12.1	E.U.T. Operation.....	191
7.12.2	Test Mode Description	191
7.12.3	Test Setup Diagram	191
7.12.4	Measurement Procedure and Data.....	192
7.13	CHANNEL CLOSING TRANSMISSION TIME	193
7.13.1	E.U.T. Operation.....	194
7.13.2	Test Mode Description	194
7.13.3	Test Setup Diagram	194
7.13.4	Measurement Procedure and Data.....	195
7.14	RADIATED EMISSIONS (BELOW 1GHz)	196
7.14.1	E.U.T. Operation.....	196
7.14.2	Test Mode Description	196



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 6 of 354

7.14.3	Test Setup Diagram.....	198
7.14.4	Measurement Procedure and Data.....	199
8	TEST SETUP PHOTO.....	202
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	202
10	APPENDIX.....	203



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.85V by li-ion battery(3000mAh) Recharged by AC/DC power adapter Adapter M/N: SW-0018C Adapter Input: AC100-240V, 50/60Hz, 0.2A Adapter Output: DC5V/1A
Cable(s):	USB Type C cable: 0.8m unshielded cable without ferrite core
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz U-NII-2A: 5260-5320MHz U-NII-2C: 5500-5700MHz U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz U-NII-2A: 5270-5310MHz U-NII-2C: 5510-5670MHz U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz U-NII-2A: 5290MHz U-NII-2C: 5530-5610MHz U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-1: -0.18dBi; U-NII-2A: 2.88dBi; U-NII-2C: 0.6dBi; U-NII-3: -0.92dBi

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 8 of 354

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Duty Cycle	$\pm 0.3\%$
99% Bandwidth	$\pm 0.3\%$
26dB Emission bandwidth	$\pm 0.3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 0.3\%$
Maximum Conducted output power	± 0.8 dB
Peak Power spectrum density	± 0.4 dB
Radiated Emissions (Above 1GHz)	± 4.4 dB (Above 1GHz)
Radiated Emissions which fall in the restricted bands	± 4.4 dB (Above 1GHz)
Frequency Stability	$\pm 5.4 \times 10^{-8}$
Non-occupancy period	± 0.8 dB
Channel Move Time	± 0.8 dB
Channel Closing Transmission Time	± 0.8 dB
Radiated Emissions (Below 1GHz)	± 3.1 dB (Below 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 9 of 354

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 10 of 354

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9
Coaxial Cable	CCS	N/A	SEM033-02	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 11 of 354

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 12 of 354

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Non-occupancy period					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 13 of 354

Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Channel Closing Transmission Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2022/5/30	2023/5/29
Signal Generator	Agilent	N5173B	SEM006-05	2022/7/12	2023/7/11
ESG Vector Signal Generator	Agilent	E4438C	SEM006-15	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2022/5/16	2023/5/15
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 14 of 354

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna: U-NII-1: -0.18dBi; U-NII-2A: 2.88dBi; U-NII-2C: 0.6dBi; U-NII-3: -0.92dBi

Antenna location: Refer to internal photo.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 16 of 354

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detected the absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 18 of 354

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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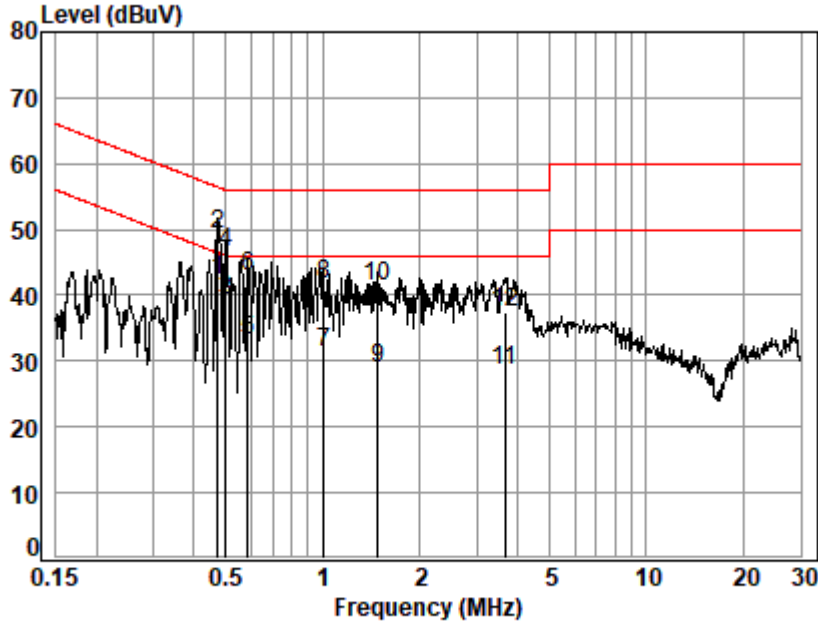
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 20 of 354

Test Mode: 14; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00472AT
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.4736	0.01	0.27	41.85	42.13	46.45	-4.32	Average
2	0.4736	0.01	0.27	48.85	49.13	56.45	-7.32	QP
3	0.5020	0.01	0.27	39.03	39.31	46.00	-6.69	Average
4	0.5020	0.01	0.27	46.19	46.47	56.00	-9.53	QP
5	0.5854	0.04	0.25	32.92	33.21	46.00	-12.79	Average
6	0.5854	0.04	0.25	42.50	42.79	56.00	-13.21	QP
7	1.0050	0.03	0.19	31.24	31.46	46.00	-14.54	Average
8	1.0050	0.03	0.19	41.59	41.81	56.00	-14.19	QP
9	1.4796	0.02	0.18	28.74	28.94	46.00	-17.06	Average
10	1.4796	0.02	0.18	41.29	41.49	56.00	-14.51	QP
11	3.6611	0.03	0.13	28.43	28.59	46.00	-17.41	Average
12	3.6611	0.03	0.13	37.24	37.40	56.00	-18.60	QP



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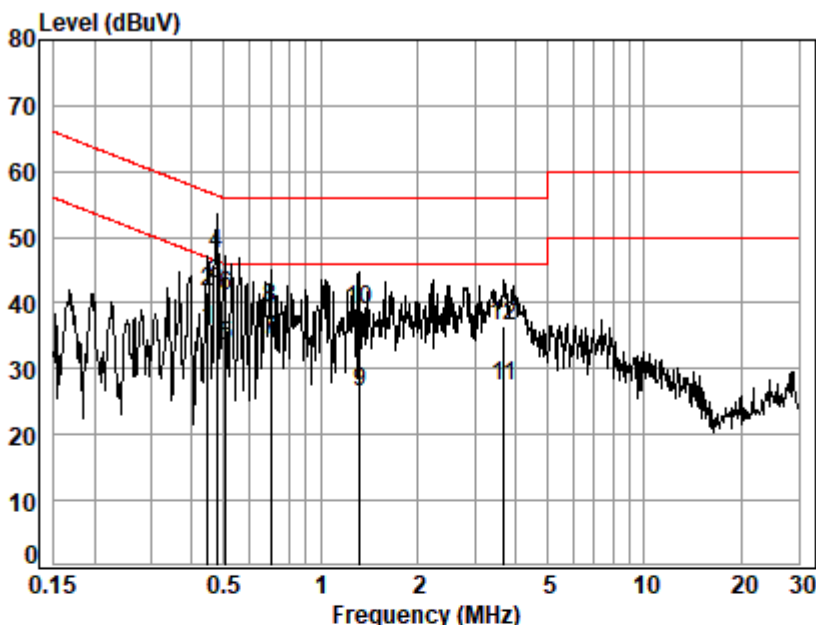
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 21 of 354

Test Mode: 14; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00472AT
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.4492	0.02	0.27	35.56	35.85	46.89	-11.04	Average
2	0.4492	0.02	0.27	41.48	41.77	56.89	-15.12	QP
3	0.4761	0.01	0.27	42.68	42.96	46.41	-3.45	Average
4	0.4761	0.01	0.27	47.14	47.42	56.41	-8.99	QP
5	0.5074	0.01	0.27	33.24	33.52	46.00	-12.48	Average
6	0.5074	0.01	0.27	40.82	41.10	56.00	-14.90	QP
7	0.7010	0.01	0.16	34.06	34.23	46.00	-11.77	Average
8	0.7010	0.01	0.16	38.92	39.09	56.00	-16.91	QP
9	1.3238	0.02	0.09	26.22	26.33	46.00	-19.67	Average
10	1.3238	0.02	0.09	38.70	38.81	56.00	-17.19	QP
11	3.6806	0.03	0.12	27.08	27.23	46.00	-18.77	Average
12	3.6806	0.03	0.12	36.49	36.64	56.00	-19.36	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 22 of 354

7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

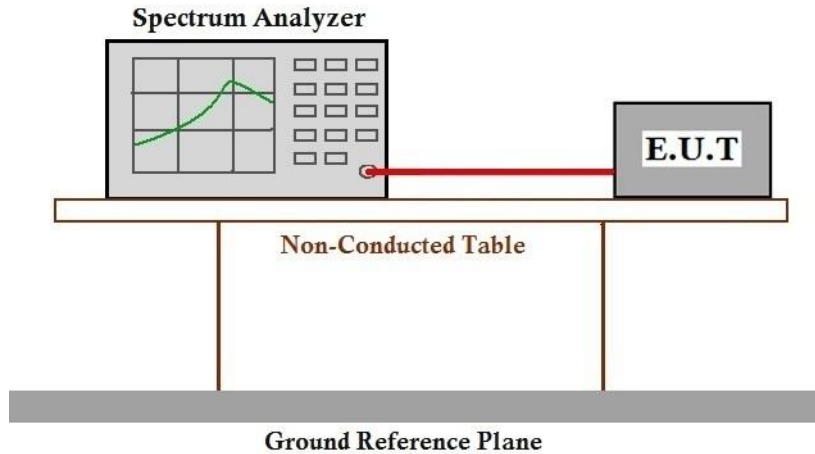


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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 24 of 354

7.3 99% Bandwidth

Test Requirement: N/A
Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.7 °C Humidity: 41.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

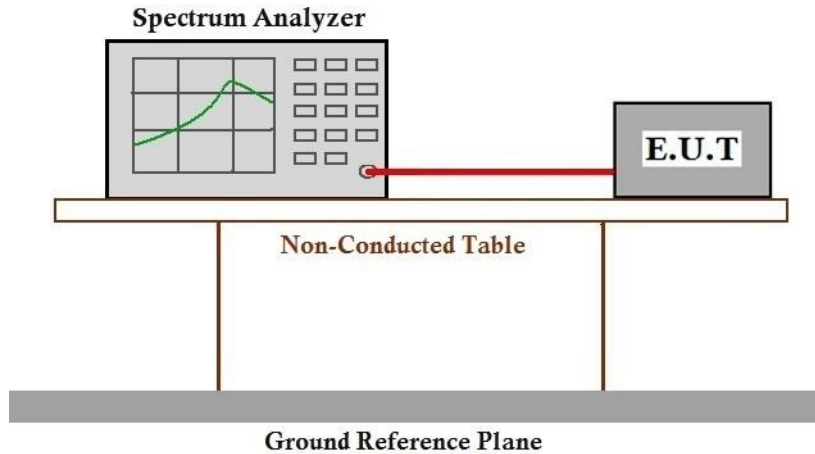


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 26 of 354

7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

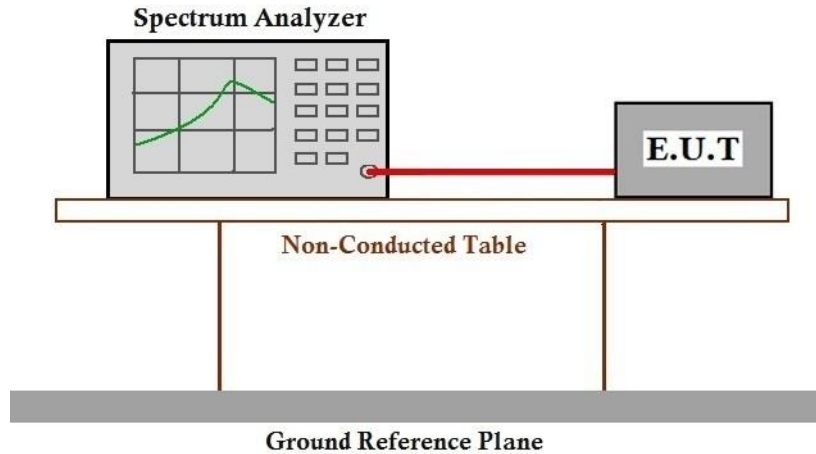


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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 28 of 354

7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

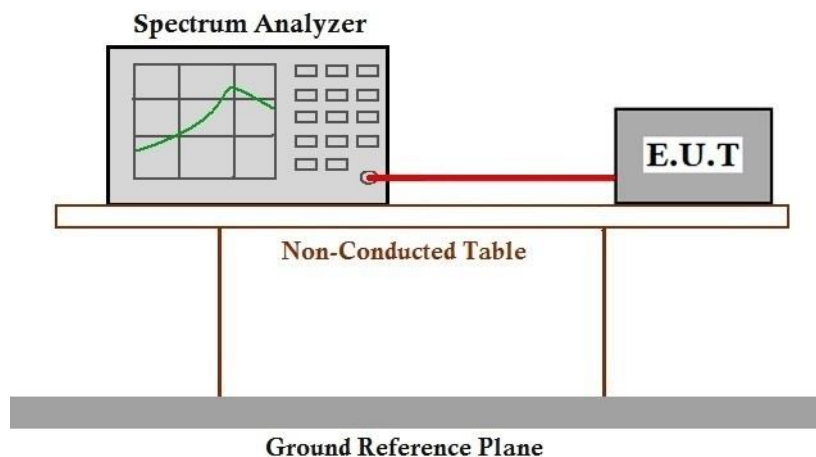
Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 29 of 354

7.5.4 Measurement Procedure and Data

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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 30 of 354

7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 41.6 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 31 of 354

		considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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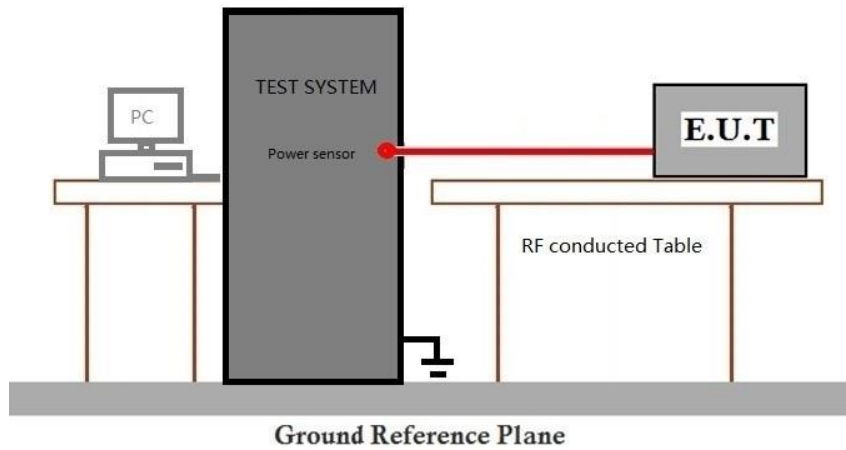
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 32 of 354

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 33 of 354

7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 41.6 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all



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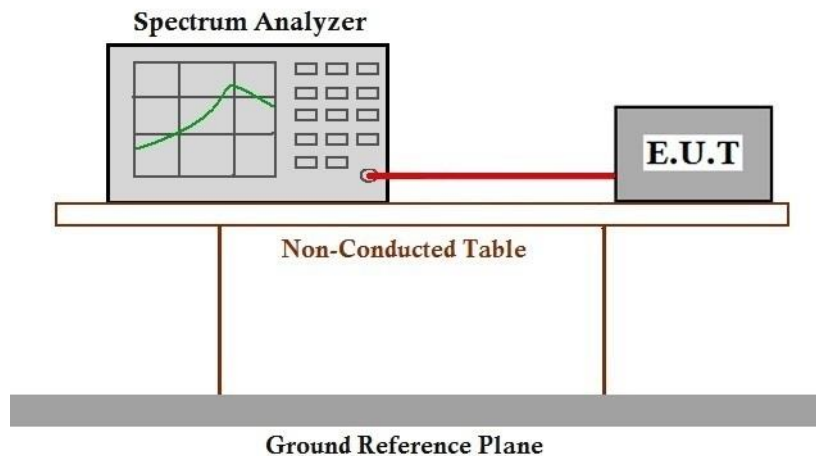
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Report No.: FYCR221100047205

Page: 34 of 354

		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 35 of 354

7.8 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (4) For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 36 of 354

		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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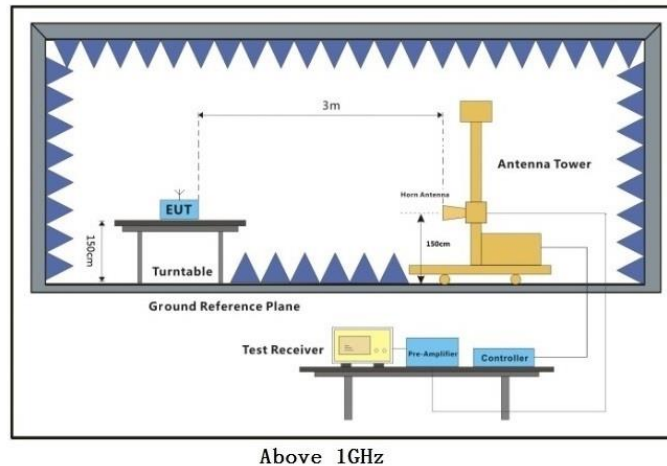
SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 37 of 354

		802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 38 of 354

7.8.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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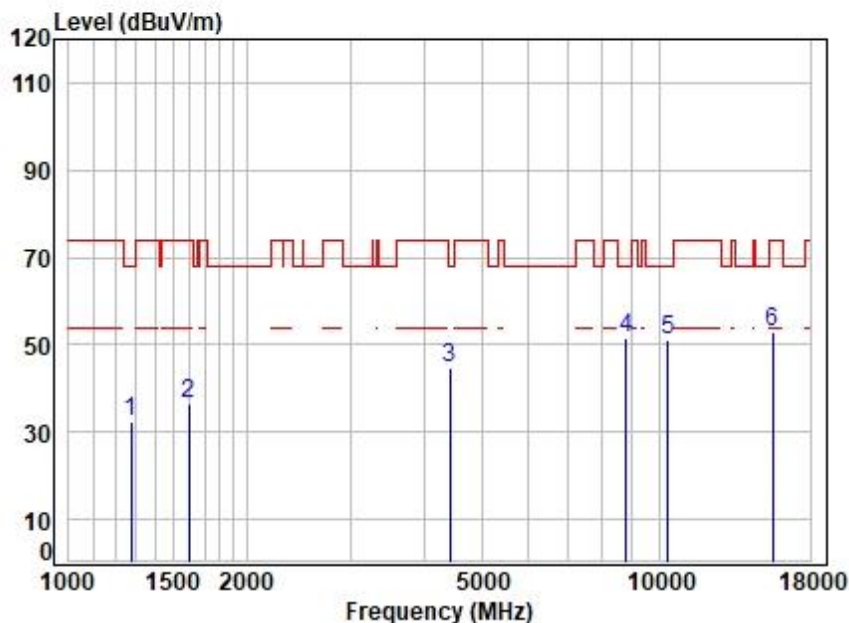
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 39 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	3.32	24.26	52.71	57.50	32.37	68.20	-35.83	peak
2	1597.181	3.98	24.79	52.91	60.55	36.41	74.00	-37.59	peak
3	4417.841	7.47	30.09	52.93	60.24	44.87	68.20	-23.33	peak
4	8789.516	10.30	36.12	54.08	59.43	51.77	68.20	-16.43	peak
5	10360.000	11.08	38.85	53.35	54.65	51.23	68.20	-16.97	peak
6	15540.000	13.49	39.74	53.43	53.35	53.15	74.00	-20.85	peak



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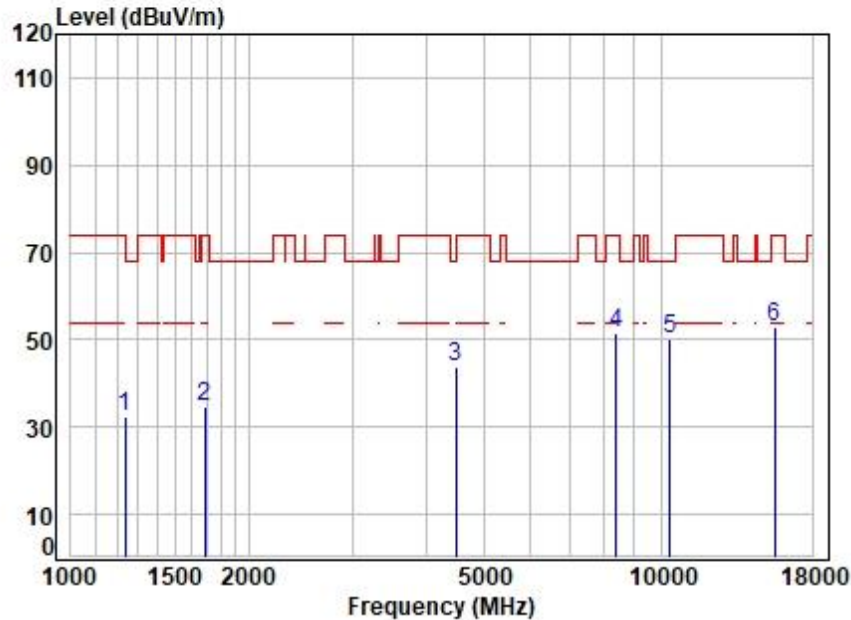
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 40 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.24	24.28	52.69	57.53	32.36	74.00	-41.64	peak
2	1687.347	4.17	24.98	52.95	58.48	34.68	74.00	-39.32	peak
3	4482.150	7.47	30.18	52.95	58.94	43.64	68.20	-24.56	peak
4	8392.292	9.62	36.16	53.84	59.56	51.50	74.00	-22.50	peak
5	10360.000	11.08	38.85	53.35	53.74	50.32	68.20	-17.88	peak
6	15540.000	13.49	39.74	53.43	53.16	52.96	74.00	-21.04	peak



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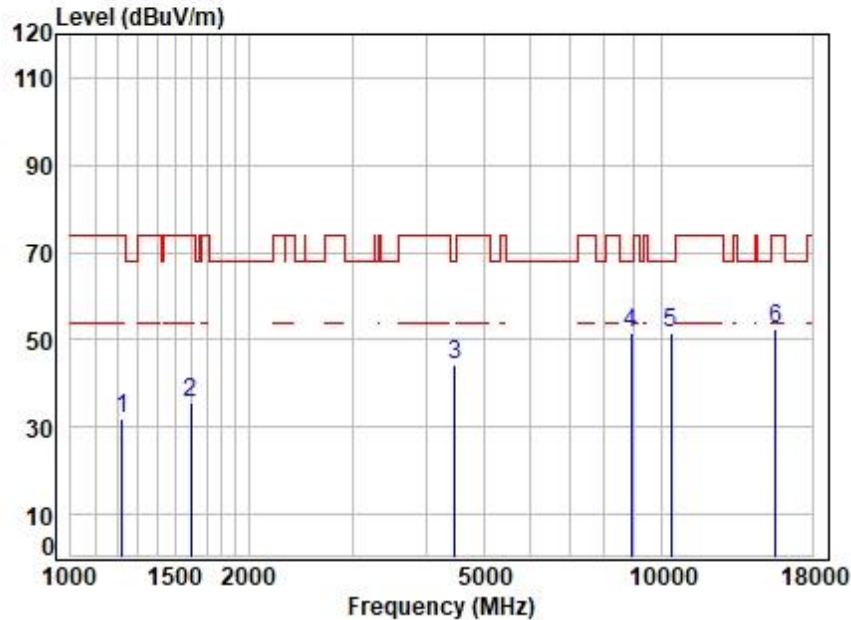
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 41 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.20	24.29	52.67	57.28	32.10	74.00	-41.90	peak
2	1597.181	3.98	24.79	52.91	59.70	35.56	74.00	-38.44	peak
3	4469.214	7.47	30.16	52.95	59.46	44.14	68.20	-24.06	peak
4	8891.725	10.52	36.11	54.14	58.95	51.44	68.20	-16.76	peak
5	10400.000	11.07	38.89	53.36	54.81	51.41	68.20	-16.79	peak
6	15600.000	13.50	39.53	53.40	52.91	52.54	74.00	-21.46	peak



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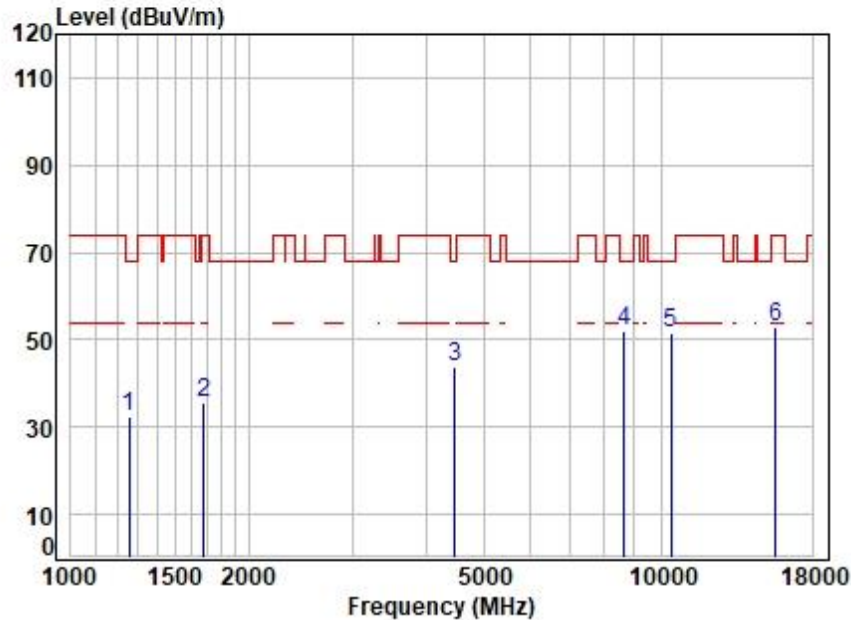
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 42 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5200 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.28	24.27	52.70	57.32	32.17	68.20	-36.03	peak
2	1682.477	4.16	24.97	52.95	59.28	35.46	74.00	-38.54	peak
3	4469.214	7.47	30.16	52.95	59.04	43.72	68.20	-24.48	peak
4	8663.404	10.03	36.13	54.01	59.98	52.13	68.20	-16.07	peak
5	10400.000	11.07	38.89	53.36	54.98	51.58	68.20	-16.62	peak
6	15600.000	13.50	39.53	53.40	53.52	53.15	74.00	-20.85	peak



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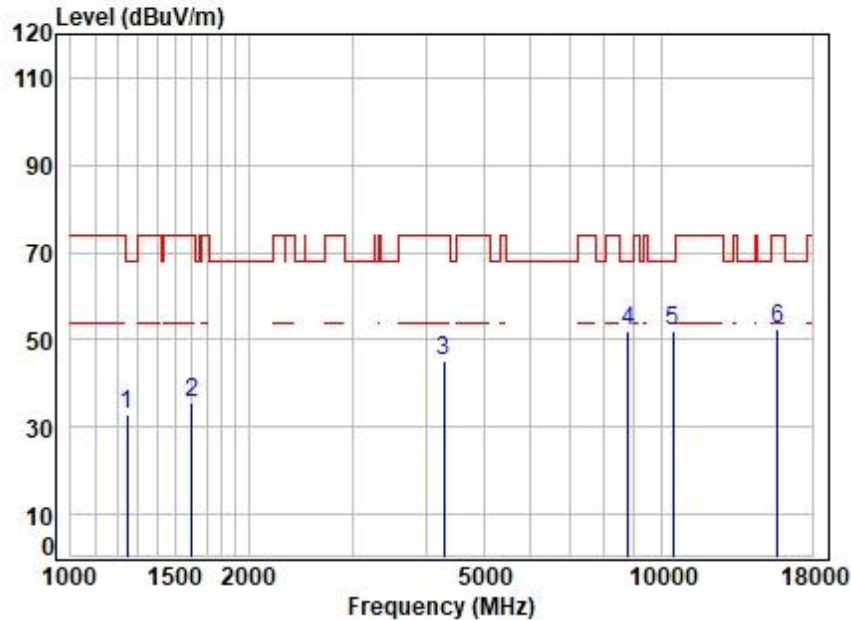
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 43 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.25	24.28	52.69	57.90	32.74	68.20	-35.46	peak
2	1601.804	3.99	24.80	52.91	59.63	35.51	74.00	-38.49	peak
3	4279.589	7.48	29.90	52.89	60.59	45.08	74.00	-28.92	peak
4	8789.516	10.30	36.12	54.08	59.69	52.03	68.20	-16.17	peak
5	10480.000	11.06	38.99	53.40	55.32	51.97	68.20	-16.23	peak
6	15720.000	13.50	39.13	53.34	53.33	52.62	74.00	-21.38	peak



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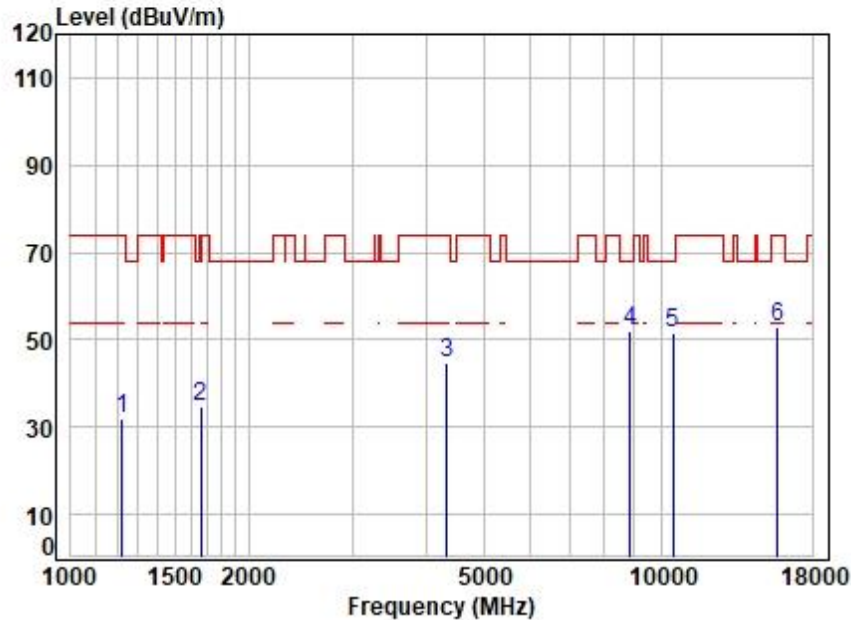
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 44 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.20	24.29	52.68	57.14	31.95	74.00	-42.05	peak
2	1663.137	4.12	24.93	52.94	58.78	34.89	74.00	-39.11	peak
3	4341.886	7.48	29.99	52.91	59.98	44.54	74.00	-29.46	peak
4	8840.473	10.41	36.12	54.11	59.38	51.80	68.20	-16.40	peak
5	10480.000	11.06	38.99	53.40	54.89	51.54	68.20	-16.66	peak
6	15720.000	13.50	39.13	53.34	53.59	52.88	74.00	-21.12	peak



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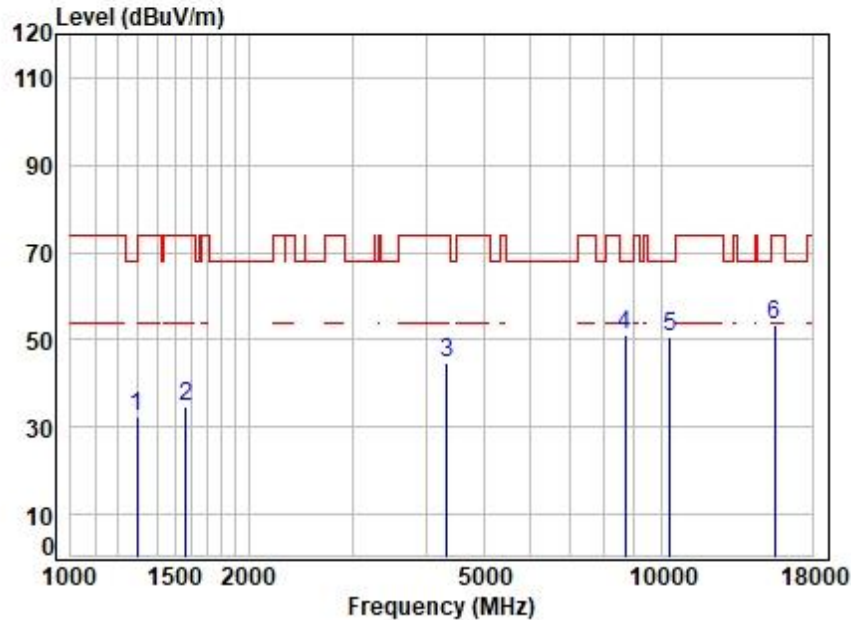
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 45 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	3.36	24.25	52.72	57.67	32.56	68.20	-35.64	peak
2	1569.721	3.92	24.71	52.89	58.84	34.58	74.00	-39.42	peak
3	4341.886	7.48	29.99	52.91	60.07	44.63	74.00	-29.37	peak
4	8688.480	10.08	36.13	54.02	59.13	51.32	68.20	-16.88	peak
5	10360.000	11.08	38.85	53.35	54.04	50.62	68.20	-17.58	peak
6	15540.000	13.49	39.74	53.43	53.51	53.31	74.00	-20.69	peak



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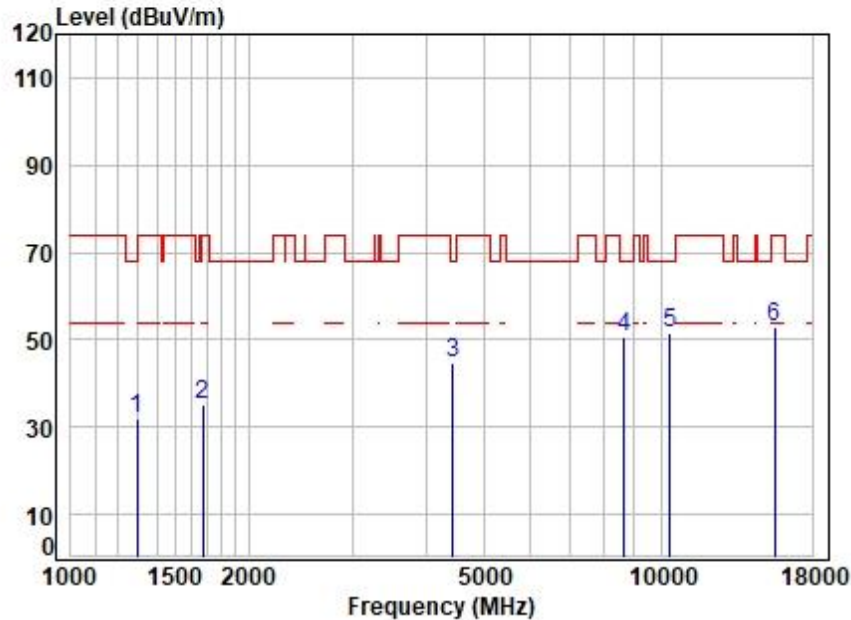
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 46 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5180 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	57.11	31.99	68.20	-36.21	peak
2	1672.779	4.14	24.95	52.95	58.91	35.05	74.00	-38.95	peak
3	4443.453	7.47	30.12	52.94	59.85	44.50	68.20	-23.70	peak
4	8663.404	10.03	36.13	54.01	58.63	50.78	68.20	-17.42	peak
5	10360.000	11.08	38.85	53.35	54.95	51.53	68.20	-16.67	peak
6	15540.000	13.49	39.74	53.43	53.19	52.99	74.00	-21.01	peak



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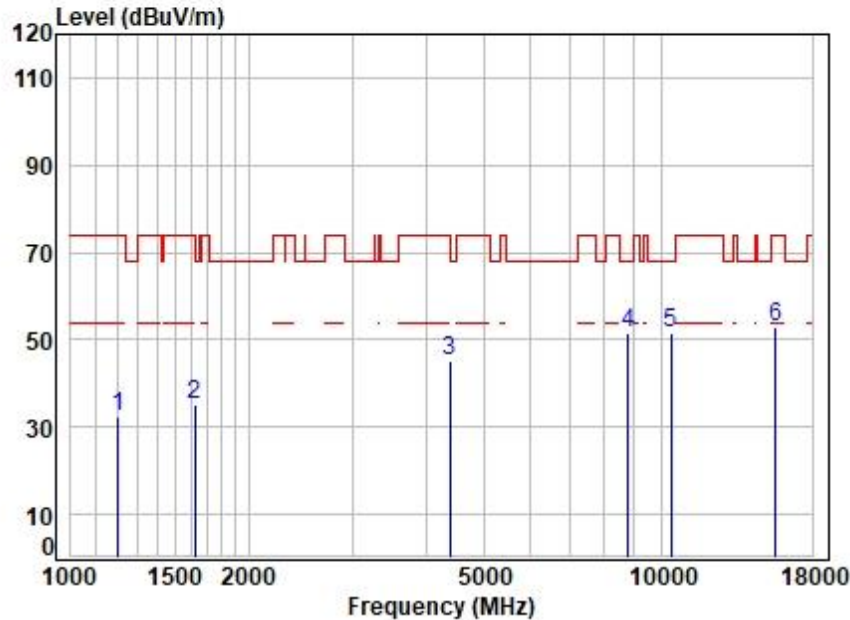
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 47 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.16	24.30	52.66	57.58	32.38	74.00	-41.62	peak
2	1625.121	4.04	24.85	52.92	59.04	35.01	74.00	-38.99	peak
3	4392.376	7.47	30.06	52.93	60.68	45.28	74.00	-28.72	peak
4	8789.516	10.30	36.12	54.08	58.99	51.33	68.20	-16.87	peak
5	10400.000	11.07	38.89	53.36	55.05	51.65	68.20	-16.55	peak
6	15600.000	13.50	39.53	53.40	53.24	52.87	74.00	-21.13	peak



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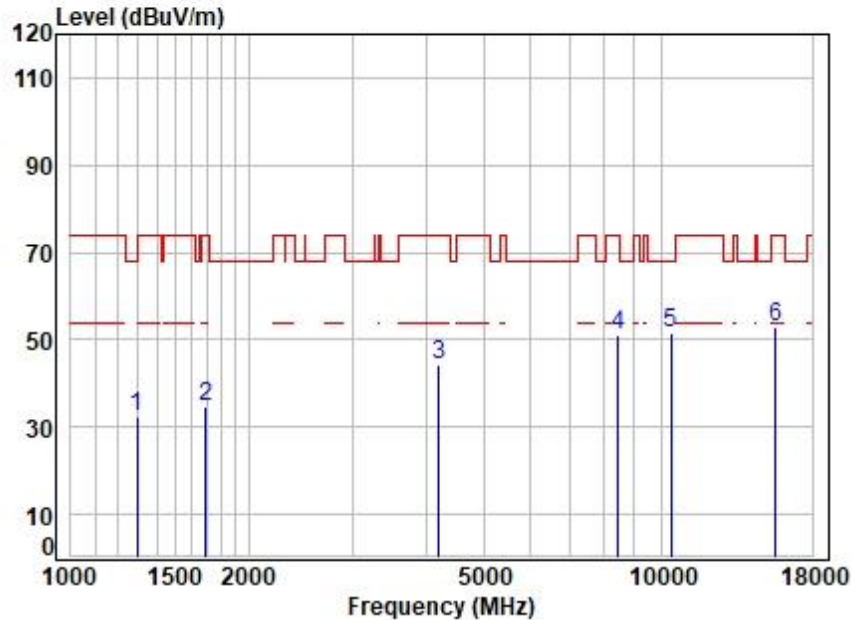
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 48 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5200 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	57.50	32.38	68.20	-35.82	peak
2	1692.231	4.18	24.99	52.96	58.69	34.90	74.00	-39.10	peak
3	4193.872	7.48	29.78	52.86	59.92	44.32	74.00	-29.68	peak
4	8465.379	9.65	36.15	53.89	59.37	51.28	74.00	-22.72	peak
5	10400.000	11.07	38.89	53.36	55.01	51.61	68.20	-16.59	peak
6	15600.000	13.50	39.53	53.40	53.45	53.08	74.00	-20.92	peak



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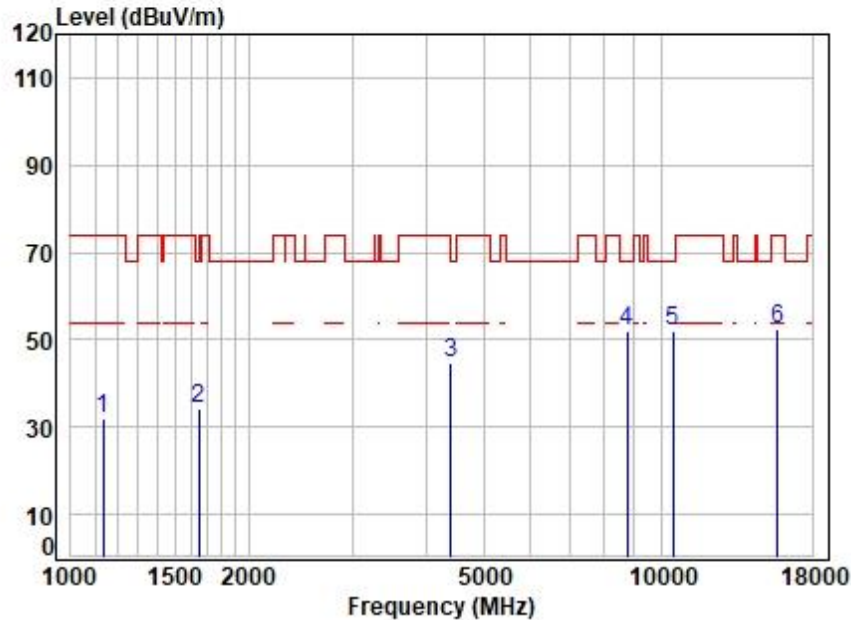
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 49 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	2.99	24.24	52.61	57.35	31.97	74.00	-42.03	peak
2	1648.778	4.09	24.90	52.93	58.31	34.37	68.20	-33.83	peak
3	4405.090	7.47	30.07	52.93	60.27	44.88	68.20	-23.32	peak
4	8764.146	10.25	36.12	54.06	59.73	52.04	68.20	-16.16	peak
5	10480.000	11.06	38.99	53.40	55.14	51.79	68.20	-16.41	peak
6	15720.000	13.50	39.13	53.34	53.03	52.32	74.00	-21.68	peak



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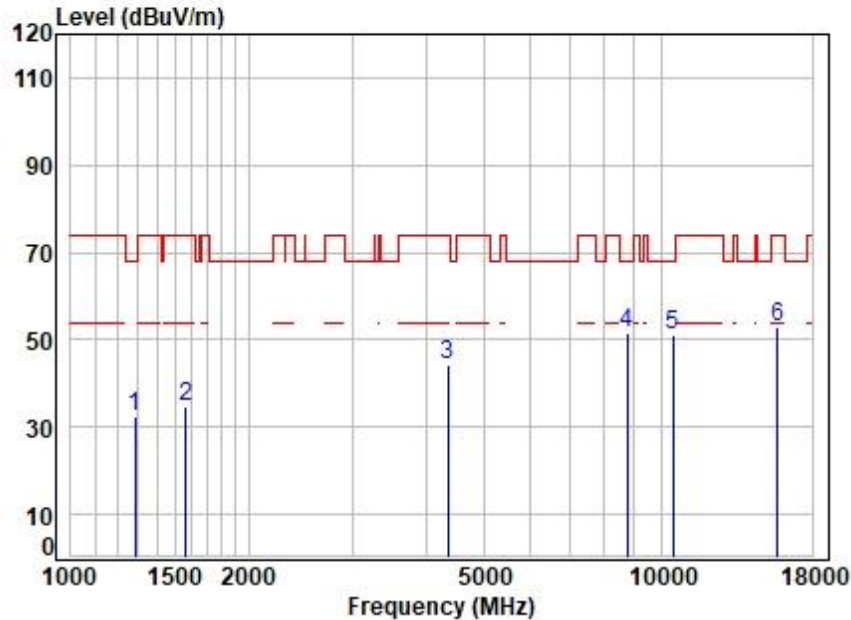
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 50 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.34	24.26	52.72	57.37	32.25	68.20	-35.95	peak
2	1565.191	3.91	24.70	52.89	59.11	34.83	74.00	-39.17	peak
3	4354.454	7.48	30.00	52.91	59.62	44.19	74.00	-29.81	peak
4	8764.146	10.25	36.12	54.06	59.02	51.33	68.20	-16.87	peak
5	10480.000	11.06	38.99	53.40	54.65	51.30	68.20	-16.90	peak
6	15720.000	13.50	39.13	53.34	53.71	53.00	74.00	-21.00	peak



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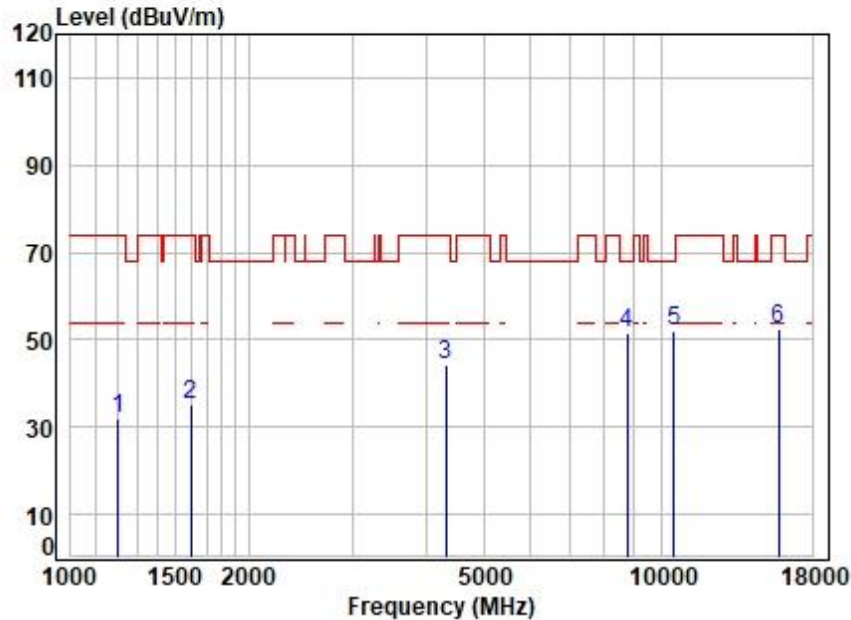
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 51 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	3.16	24.30	52.66	56.98	31.78	74.00	-42.22	peak
2	1597.181	3.98	24.79	52.91	59.11	34.97	74.00	-39.03	peak
3	4316.859	7.48	29.95	52.90	59.58	44.11	74.00	-29.89	peak
4	8764.146	10.25	36.12	54.06	59.40	51.71	68.20	-16.49	peak
5	10520.000	11.07	39.04	53.41	55.24	51.94	68.20	-16.26	peak
6	15780.000	13.51	38.93	53.31	53.49	52.62	74.00	-21.38	peak



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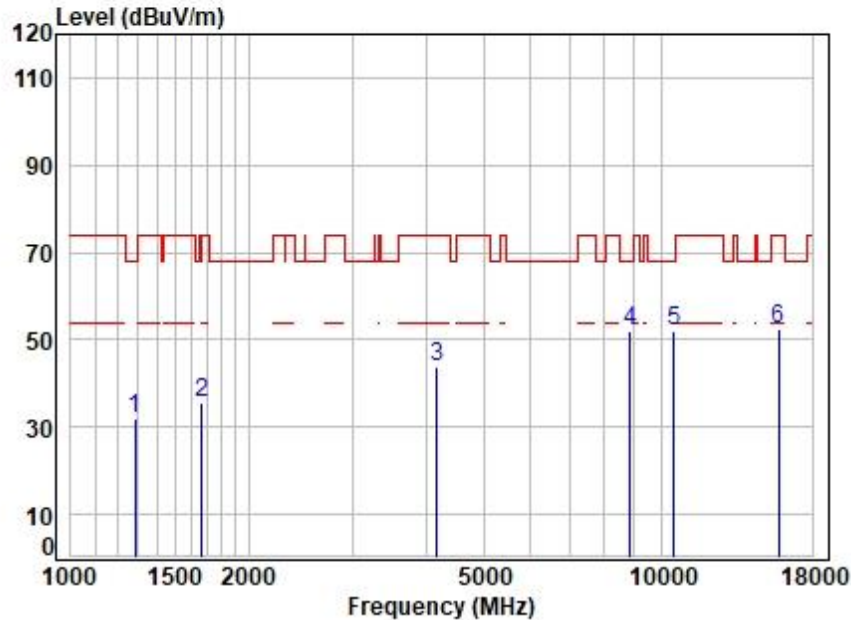
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 52 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5260 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.34	24.26	52.72	56.93	31.81	68.20	-36.39	peak
2	1667.951	4.13	24.94	52.94	59.36	35.49	74.00	-38.51	peak
3	4169.698	7.48	29.75	52.86	59.47	43.84	74.00	-30.16	peak
4	8840.473	10.41	36.12	54.11	59.45	51.87	68.20	-16.33	peak
5	10520.000	11.07	39.04	53.41	55.33	52.03	68.20	-16.17	peak
6	15780.000	13.51	38.93	53.31	53.49	52.62	74.00	-21.38	peak



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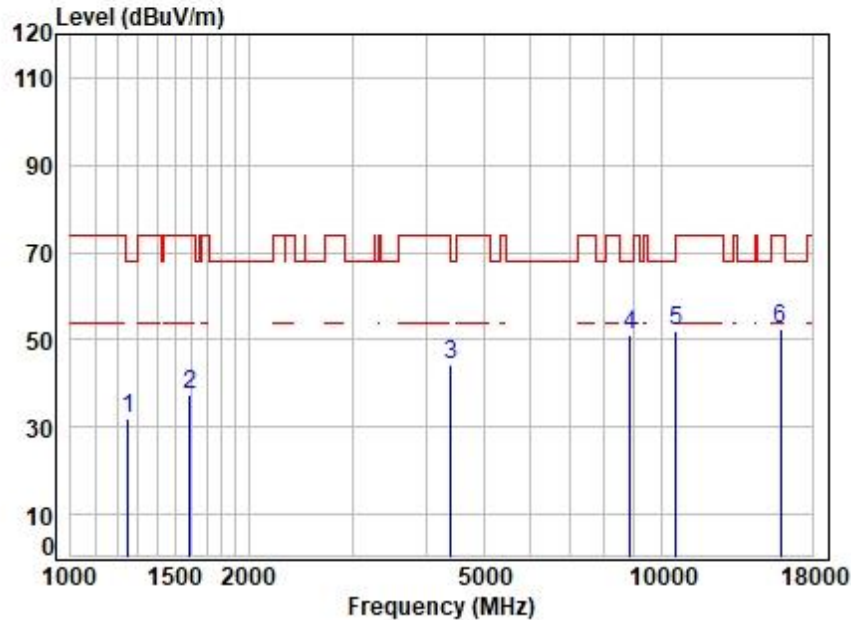
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 53 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	52.70	57.05	31.89	68.20	-36.31	peak
2	1592.571	3.97	24.78	52.90	61.41	37.26	74.00	-36.74	peak
3	4405.090	7.47	30.07	52.93	59.60	44.21	68.20	-23.99	peak
4	8866.062	10.47	36.11	54.12	58.86	51.32	68.20	-16.88	peak
5	10600.000	11.12	39.13	53.44	55.41	52.22	68.20	-15.98	peak
6	15900.000	13.51	38.53	53.25	53.63	52.42	74.00	-21.58	peak



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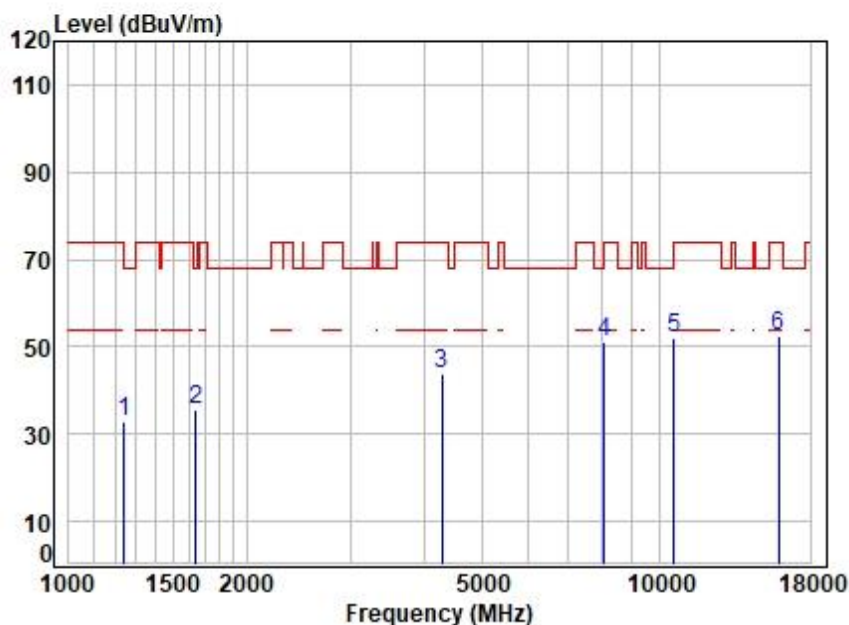
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 54 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.24	24.28	52.69	57.81	32.64	68.20	-35.56	peak
2	1644.019	4.08	24.89	52.93	59.38	35.42	68.20	-32.78	peak
3	4291.977	7.48	29.92	52.89	59.42	43.93	74.00	-30.07	peak
4	8082.804	9.47	36.19	53.65	59.15	51.16	74.00	-22.84	peak
5	10600.000	11.12	39.13	53.44	55.01	51.82	68.20	-16.38	peak
6	15900.000	13.51	38.53	53.25	53.82	52.61	74.00	-21.39	peak



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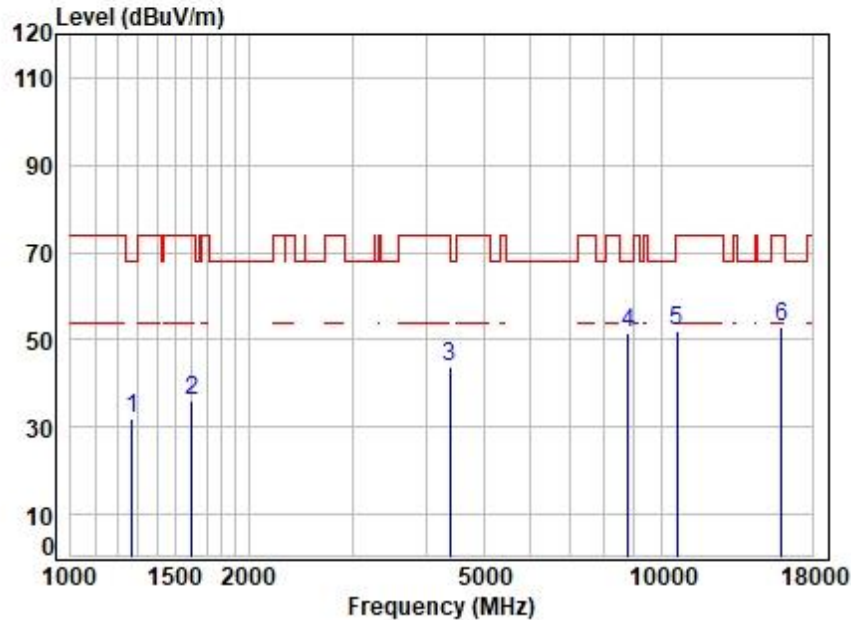
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 55 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.31	24.26	52.71	56.94	31.80	68.20	-36.40	peak
2	1601.804	3.99	24.80	52.91	60.03	35.91	74.00	-38.09	peak
3	4392.376	7.47	30.06	52.93	59.17	43.77	74.00	-30.23	peak
4	8789.516	10.30	36.12	54.08	59.44	51.78	68.20	-16.42	peak
5	10640.000	11.15	39.18	53.46	55.27	52.14	74.00	-21.86	peak
6	15960.000	13.52	38.33	53.22	54.25	52.88	74.00	-21.12	peak



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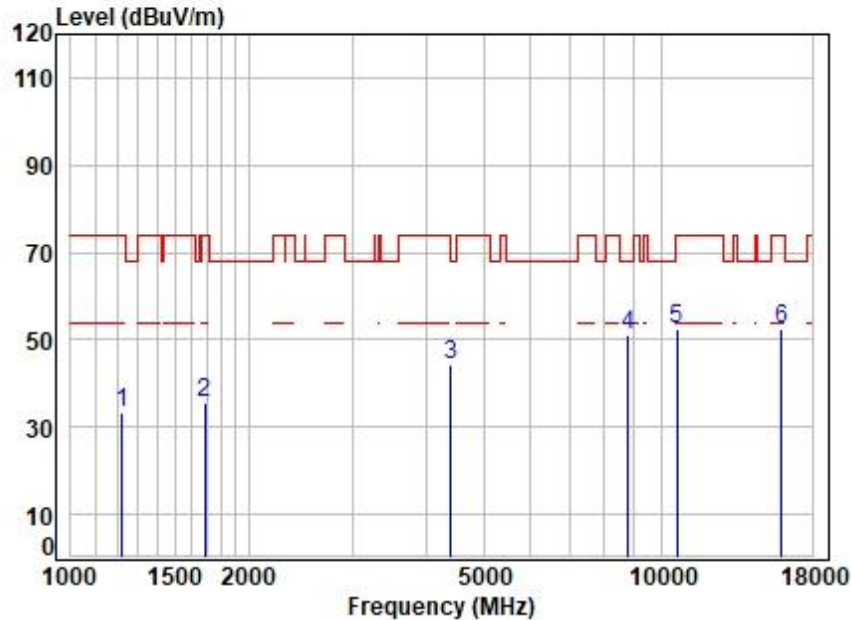
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 56 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5320 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.20	24.29	52.68	58.60	33.41	74.00	-40.59	peak
2	1687.347	4.17	24.98	52.95	59.21	35.41	74.00	-38.59	peak
3	4405.090	7.47	30.07	52.93	59.51	44.12	68.20	-24.08	peak
4	8789.516	10.30	36.12	54.08	58.77	51.11	68.20	-17.09	peak
5	10640.000	11.15	39.18	53.46	55.75	52.62	74.00	-21.38	peak
6	15960.000	13.52	38.33	53.22	53.80	52.43	74.00	-21.57	peak



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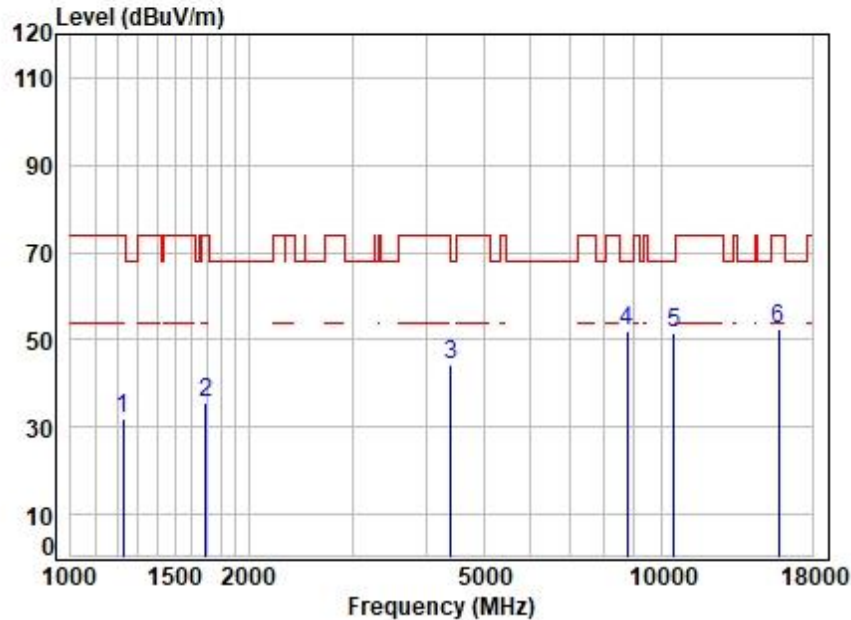
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 57 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.21	24.29	52.68	56.93	31.75	74.00	-42.25	peak
2	1692.231	4.18	24.99	52.96	59.39	35.60	74.00	-38.40	peak
3	4405.090	7.47	30.07	52.93	59.77	44.38	68.20	-23.82	peak
4	8738.852	10.19	36.12	54.05	59.71	51.97	68.20	-16.23	peak
5	10520.000	11.07	39.04	53.41	55.05	51.75	68.20	-16.45	peak
6	15780.000	13.51	38.93	53.31	53.44	52.57	74.00	-21.43	peak



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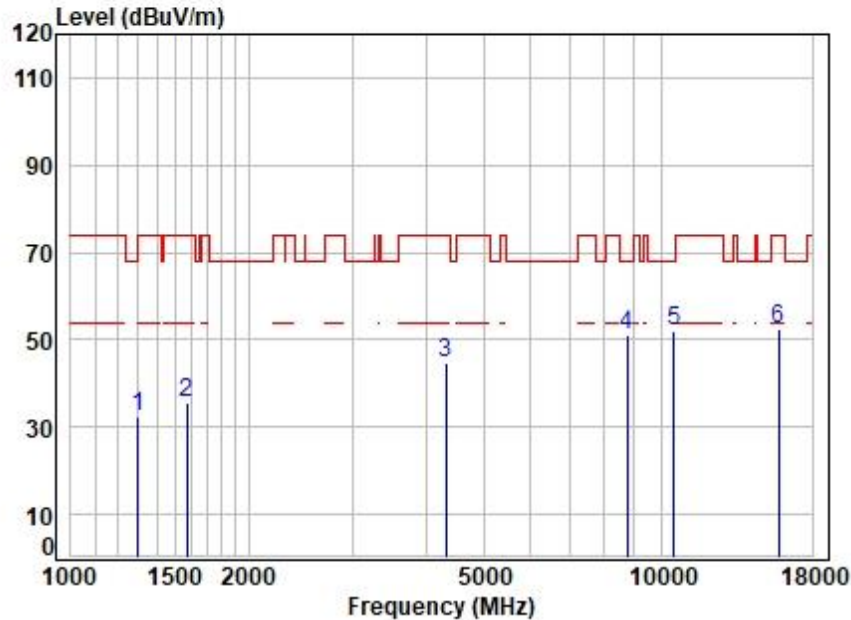
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 58 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5260 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	57.67	32.56	74.00	-41.44	peak
2	1574.265	3.93	24.73	52.89	59.81	35.58	74.00	-38.42	peak
3	4316.859	7.48	29.95	52.90	60.11	44.64	74.00	-29.36	peak
4	8738.852	10.19	36.12	54.05	58.81	51.07	68.20	-17.13	peak
5	10520.000	11.07	39.04	53.41	55.10	51.80	68.20	-16.40	peak
6	15780.000	13.51	38.93	53.31	53.55	52.68	74.00	-21.32	peak



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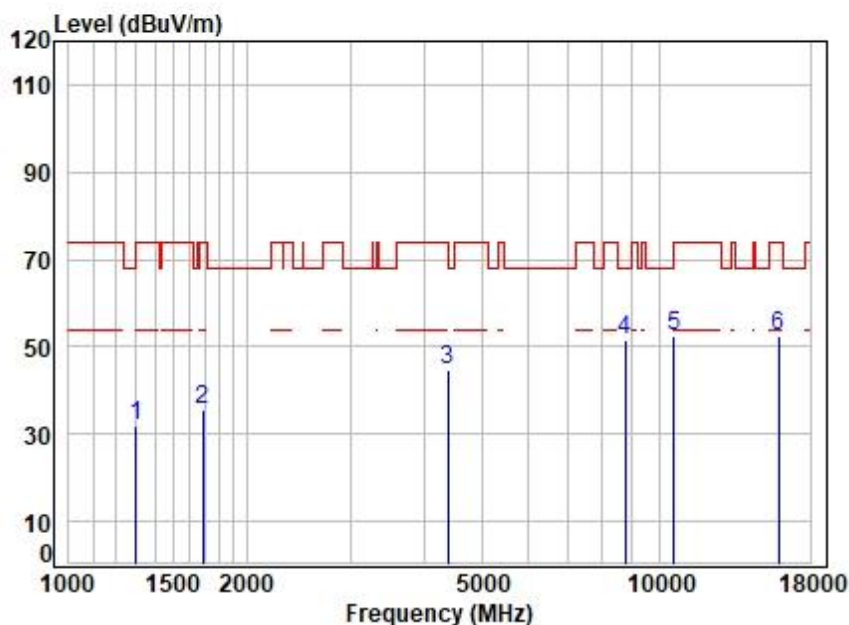
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 59 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	57.27	32.16	74.00	-41.84	peak
2	1687.347	4.17	24.98	52.95	59.23	35.43	74.00	-38.57	peak
3	4392.376	7.47	30.06	52.93	59.99	44.59	74.00	-29.41	peak
4	8738.852	10.19	36.12	54.05	59.38	51.64	68.20	-16.56	peak
5	10600.000	11.12	39.13	53.44	55.54	52.35	68.20	-15.85	peak
6	15900.000	13.51	38.53	53.25	53.68	52.47	74.00	-21.53	peak



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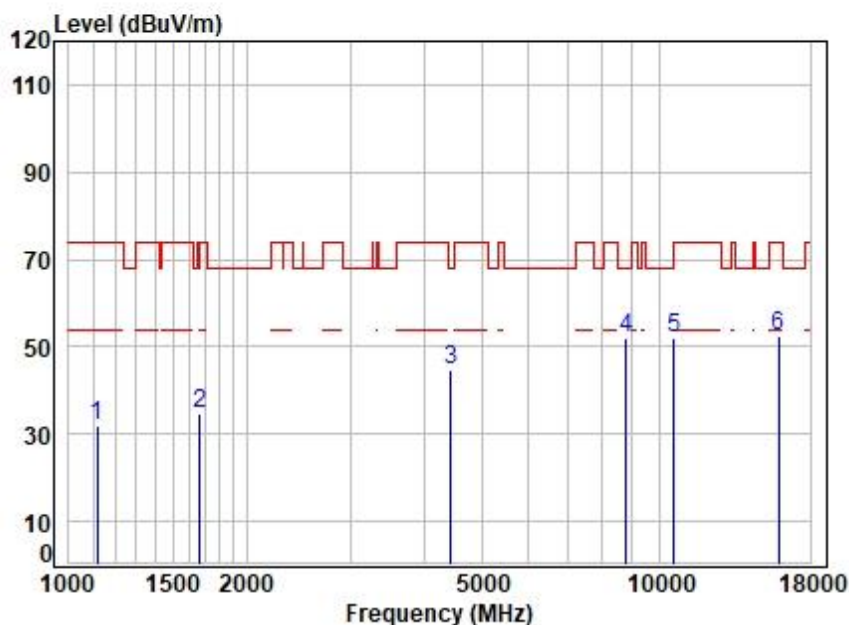
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 60 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5300 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1116.093	2.95	24.22	52.60	57.59	32.16	74.00	-41.84	peak
2	1667.951	4.13	24.94	52.94	58.77	34.90	74.00	-39.10	peak
3	4443.453	7.47	30.12	52.94	59.92	44.57	68.20	-23.63	peak
4	8789.516	10.30	36.12	54.08	59.60	51.94	68.20	-16.26	peak
5	10600.000	11.12	39.13	53.44	55.14	51.95	68.20	-16.25	peak
6	15900.000	13.51	38.53	53.25	53.50	52.29	74.00	-21.71	peak



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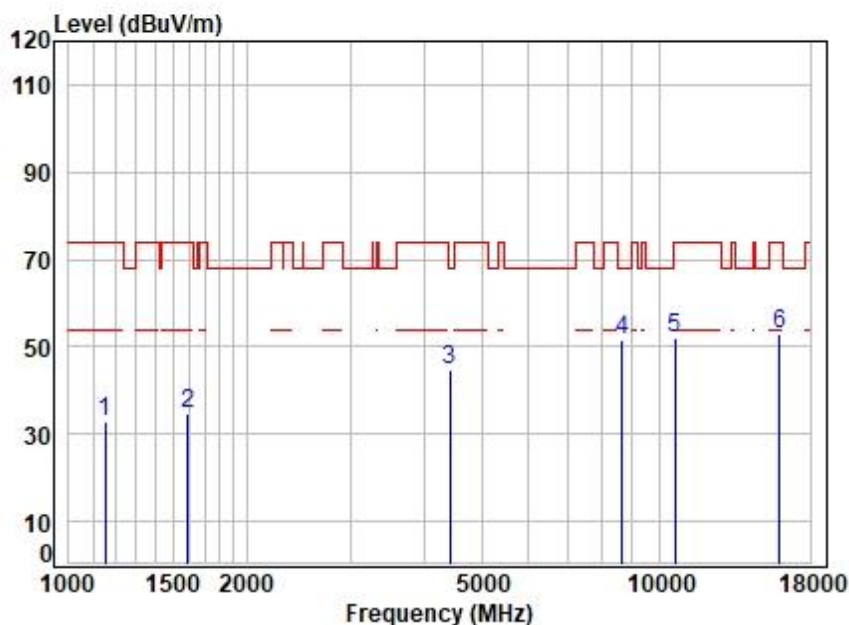
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 61 of 354

Test Mode: 15; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5320 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	58.16	32.83	74.00	-41.17	peak
2	1592.571	3.97	24.78	52.90	58.79	34.64	74.00	-39.36	peak
3	4417.841	7.47	30.09	52.93	60.17	44.80	68.20	-23.40	peak
4	8663.404	10.03	36.13	54.01	59.30	51.45	68.20	-16.75	peak
5	10640.000	11.15	39.18	53.46	55.30	52.17	74.00	-21.83	peak
6	15960.000	13.52	38.33	53.22	54.25	52.88	74.00	-21.12	peak



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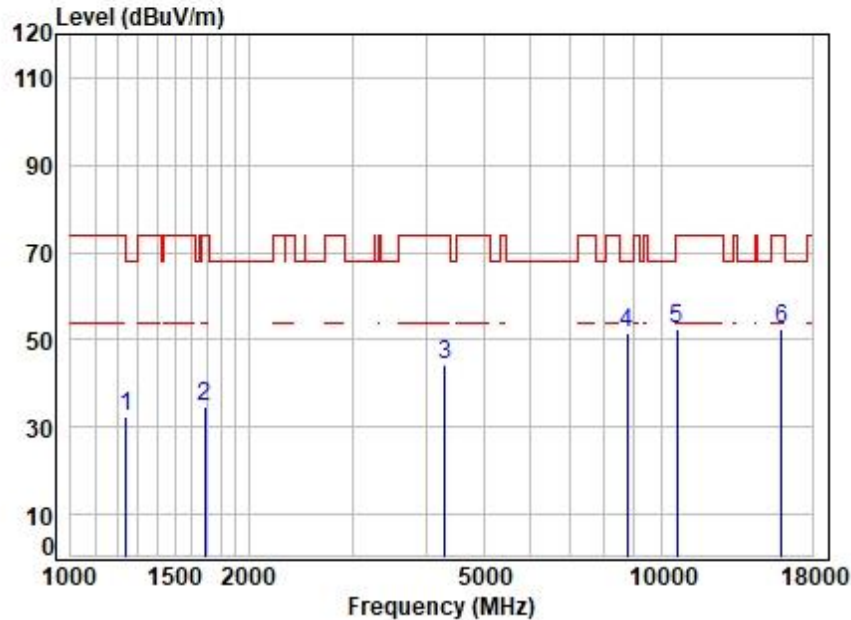
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 62 of 354

Test Mode: 15; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 00472AT

Mode : 5320 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.24	24.28	52.69	57.58	32.41	68.20	-35.79	peak
2	1687.347	4.17	24.98	52.95	58.56	34.76	74.00	-39.24	peak
3	4304.400	7.48	29.94	52.90	59.59	44.11	74.00	-29.89	peak
4	8738.852	10.19	36.12	54.05	59.33	51.59	68.20	-16.61	peak
5	10640.000	11.15	39.18	53.46	55.61	52.48	74.00	-21.52	peak
6	15960.000	13.52	38.33	53.22	53.90	52.53	74.00	-21.47	peak



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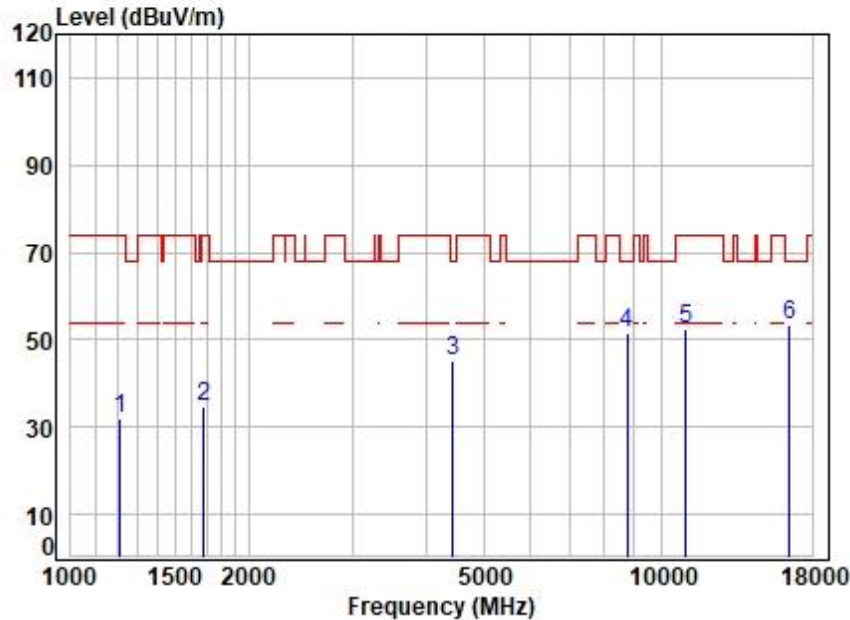
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 63 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.18	24.29	52.67	57.28	32.08	74.00	-41.92	peak
2	1682.477	4.16	24.97	52.95	58.45	34.63	74.00	-39.37	peak
3	4430.628	7.47	30.11	52.94	60.45	45.09	68.20	-23.11	peak
4	8738.852	10.19	36.12	54.05	59.36	51.62	68.20	-16.58	peak
5	11000.000	11.36	39.60	53.60	55.04	52.40	74.00	-21.60	peak
6	16500.000	14.69	39.93	52.90	51.44	53.16	68.20	-15.04	peak



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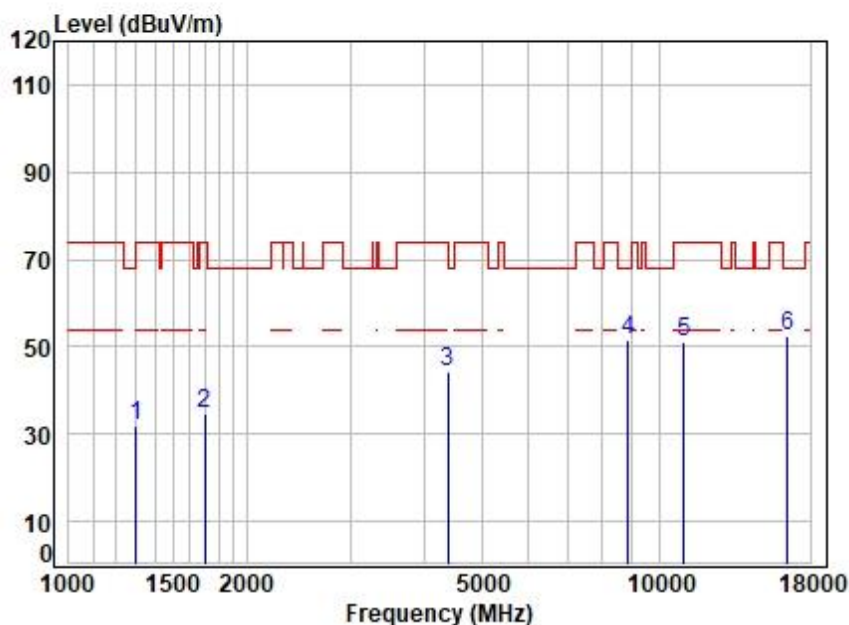
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 64 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5500 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	57.13	32.02	74.00	-41.98	peak
2	1702.042	4.20	25.01	52.96	58.28	34.53	74.00	-39.47	peak
3	4392.376	7.47	30.06	52.93	59.45	44.05	74.00	-29.95	peak
4	8866.062	10.47	36.11	54.12	58.91	51.37	68.20	-16.83	peak
5	11000.000	11.36	39.60	53.60	53.86	51.22	74.00	-22.78	peak
6	16500.000	14.69	39.93	52.90	50.61	52.33	68.20	-15.87	peak



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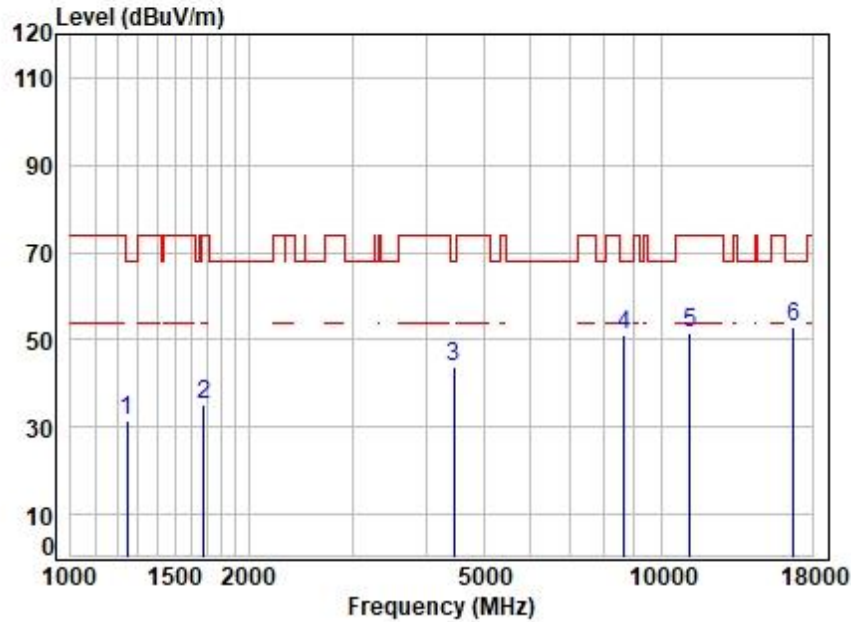
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 65 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.25	24.28	52.69	56.78	31.62	68.20	-36.58	peak
2	1682.477	4.16	24.97	52.95	59.00	35.18	74.00	-38.82	peak
3	4456.315	7.47	30.14	52.95	59.34	44.00	68.20	-24.20	peak
4	8663.404	10.03	36.13	54.01	58.98	51.13	68.20	-17.07	peak
5	11160.000	11.44	39.63	53.67	54.21	51.61	74.00	-22.39	peak
6	16740.000	14.50	40.74	52.75	50.27	52.76	68.20	-15.44	peak



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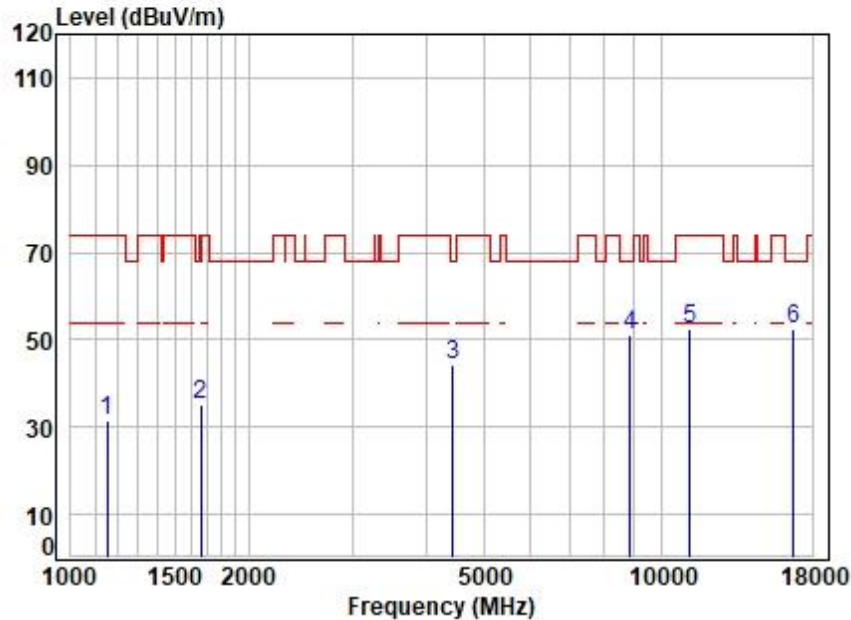
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 66 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5580 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.03	24.26	52.62	57.01	31.68	74.00	-42.32	peak
2	1658.337	4.11	24.92	52.94	58.90	34.99	68.20	-33.21	peak
3	4443.453	7.47	30.12	52.94	59.78	44.43	68.20	-23.77	peak
4	8840.473	10.41	36.12	54.11	58.79	51.21	68.20	-16.99	peak
5	11160.000	11.44	39.63	53.67	55.29	52.69	74.00	-21.31	peak
6	16740.000	14.50	40.74	52.75	50.14	52.63	68.20	-15.57	peak



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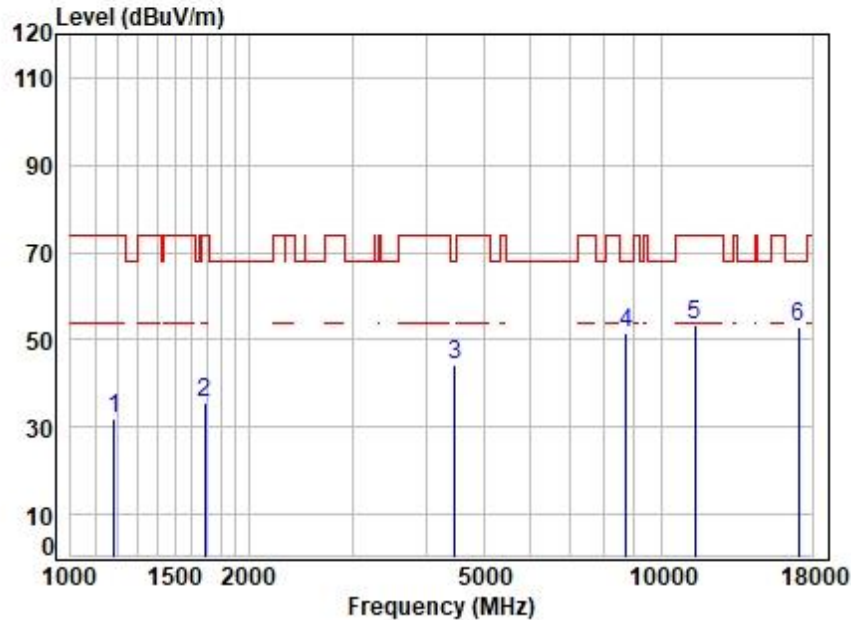
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 67 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	3.11	24.28	52.65	57.30	32.04	74.00	-41.96	peak
2	1687.347	4.17	24.98	52.95	59.31	35.51	74.00	-38.49	peak
3	4469.214	7.47	30.16	52.95	59.58	44.26	68.20	-23.94	peak
4	8713.630	10.14	36.13	54.04	59.33	51.56	68.20	-16.64	peak
5	11400.000	11.55	39.68	53.76	56.06	53.53	74.00	-20.47	peak
6	17100.000	14.34	42.14	52.54	48.92	52.86	68.20	-15.34	peak



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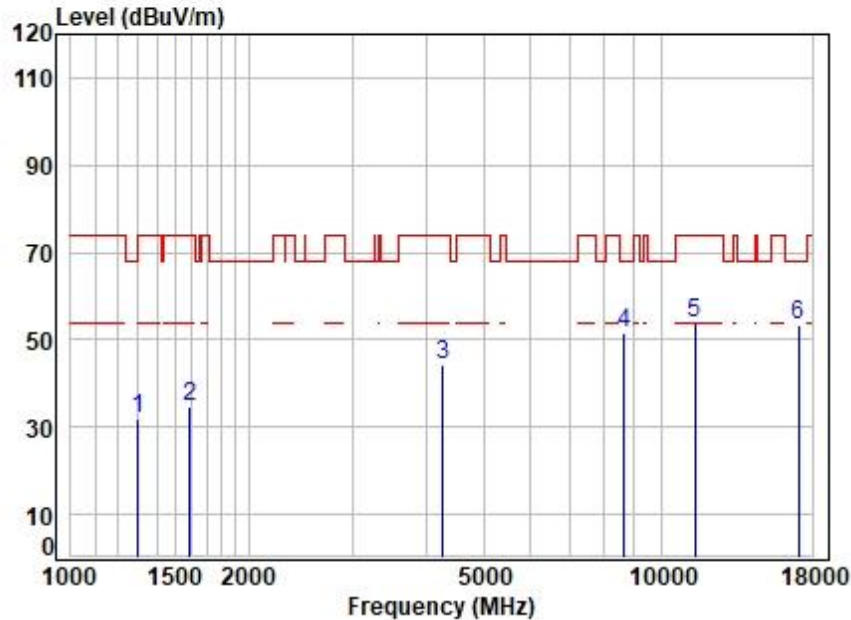
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 68 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5700 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.37	24.25	52.73	57.00	31.89	74.00	-42.11	peak
2	1592.571	3.97	24.78	52.90	58.66	34.51	74.00	-39.49	peak
3	4267.237	7.48	29.88	52.89	59.77	44.24	74.00	-29.76	peak
4	8638.399	9.98	36.13	53.99	59.36	51.48	68.20	-16.72	peak
5	11400.000	11.55	39.68	53.76	56.51	53.98	74.00	-20.02	peak
6	17100.000	14.34	42.14	52.54	49.29	53.23	68.20	-14.97	peak



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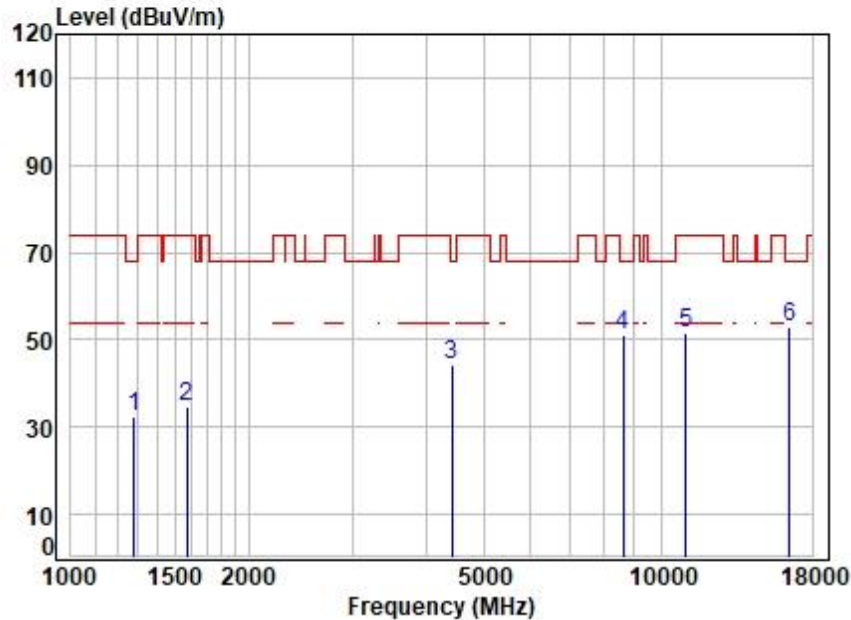
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 69 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.33	24.26	52.72	57.71	32.58	68.20	-35.62	peak
2	1574.265	3.93	24.73	52.89	58.89	34.66	74.00	-39.34	peak
3	4417.841	7.47	30.09	52.93	59.52	44.15	68.20	-24.05	peak
4	8613.468	9.92	36.14	53.98	58.86	50.94	68.20	-17.26	peak
5	11000.000	11.36	39.60	53.60	54.10	51.46	74.00	-22.54	peak
6	16500.000	14.69	39.93	52.90	51.08	52.80	68.20	-15.40	peak



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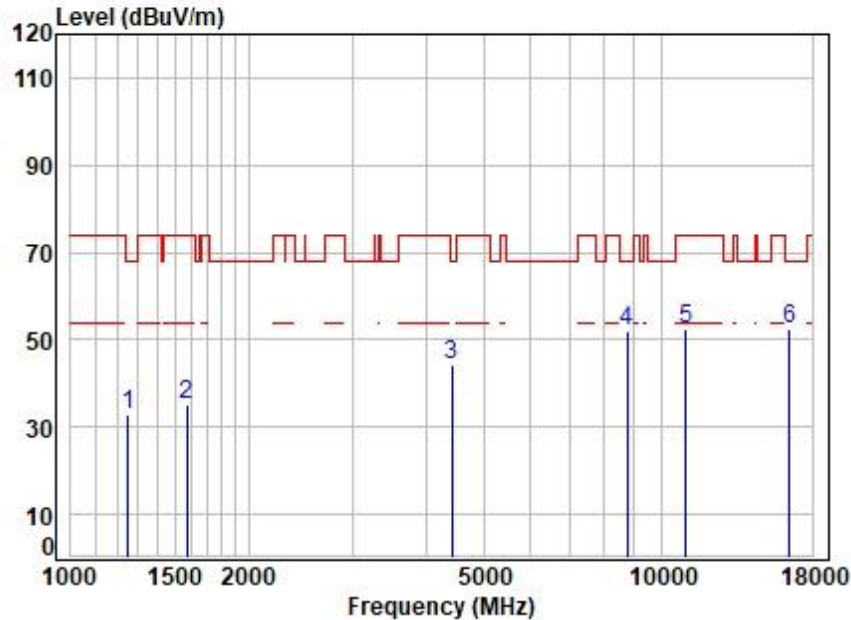
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 70 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5500 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	52.70	58.00	32.84	68.20	-35.36	peak
2	1574.265	3.93	24.73	52.89	59.31	35.08	74.00	-38.92	peak
3	4417.841	7.47	30.09	52.93	59.40	44.03	68.20	-24.17	peak
4	8764.146	10.25	36.12	54.06	59.74	52.05	68.20	-16.15	peak
5	11000.000	11.36	39.60	53.60	54.93	52.29	74.00	-21.71	peak
6	16500.000	14.69	39.93	52.90	50.62	52.34	68.20	-15.86	peak



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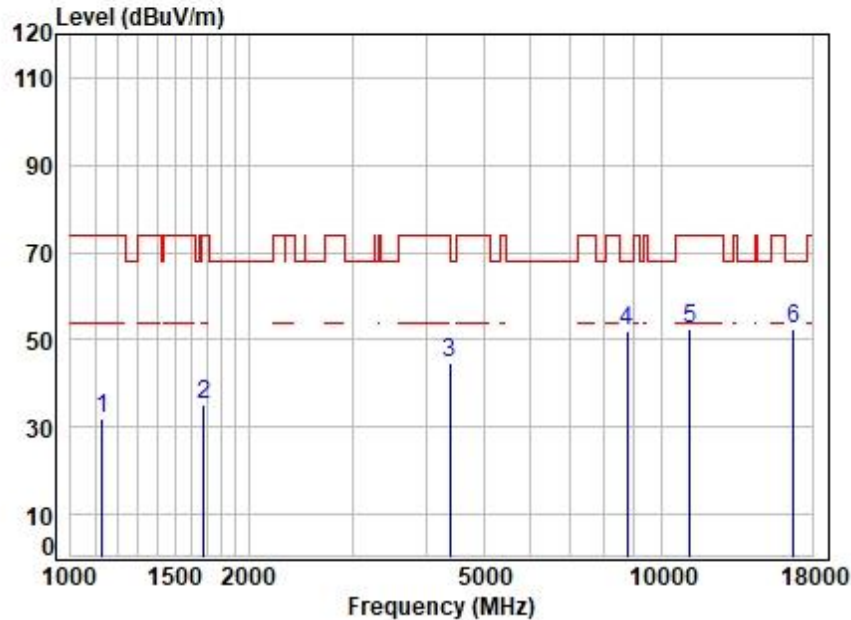
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 71 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	2.99	24.24	52.61	57.28	31.90	74.00	-42.10	peak
2	1677.621	4.15	24.96	52.95	58.88	35.04	74.00	-38.96	peak
3	4392.376	7.47	30.06	52.93	60.34	44.94	74.00	-29.06	peak
4	8764.146	10.25	36.12	54.06	59.75	52.06	68.20	-16.14	peak
5	11160.000	11.44	39.63	53.67	55.20	52.60	74.00	-21.40	peak
6	16740.000	14.50	40.74	52.75	49.93	52.42	68.20	-15.78	peak



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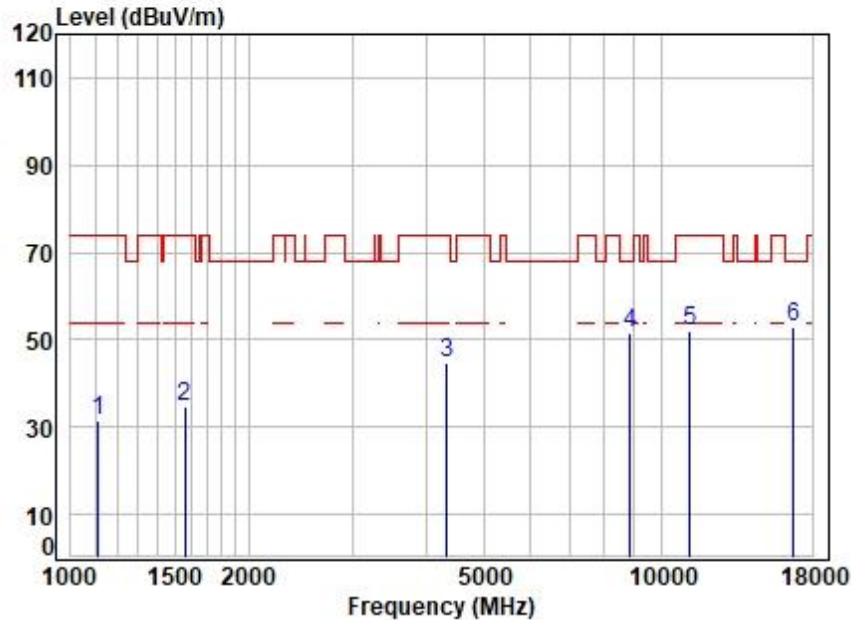
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 72 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5580 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1112.872	2.94	24.22	52.59	56.95	31.52	74.00	-42.48	peak
2	1560.673	3.91	24.69	52.89	58.89	34.60	74.00	-39.40	peak
3	4329.354	7.48	29.97	52.91	60.26	44.80	74.00	-29.20	peak
4	8840.473	10.41	36.12	54.11	59.21	51.63	68.20	-16.57	peak
5	11160.000	11.44	39.63	53.67	54.78	52.18	74.00	-21.82	peak
6	16740.000	14.50	40.74	52.75	50.44	52.93	68.20	-15.27	peak



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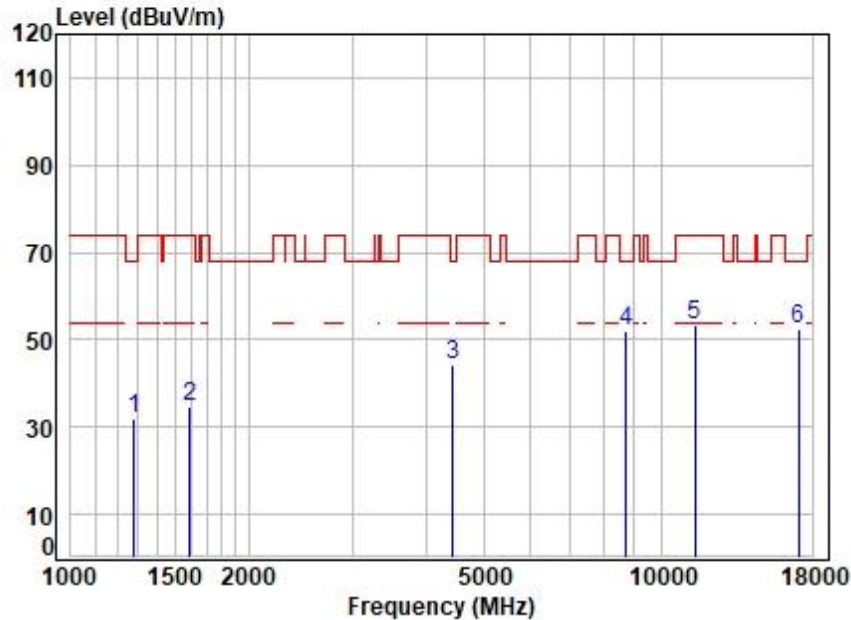
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 73 of 354

Test Mode: 16; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.492	3.32	24.26	52.71	57.19	32.06	68.20	-36.14	peak
2	1592.571	3.97	24.78	52.90	58.92	34.77	74.00	-39.23	peak
3	4430.628	7.47	30.11	52.94	59.55	44.19	68.20	-24.01	peak
4	8713.630	10.14	36.13	54.04	59.59	51.82	68.20	-16.38	peak
5	11400.000	11.55	39.68	53.76	55.73	53.20	74.00	-20.80	peak
6	17100.000	14.34	42.14	52.54	48.70	52.64	68.20	-15.56	peak



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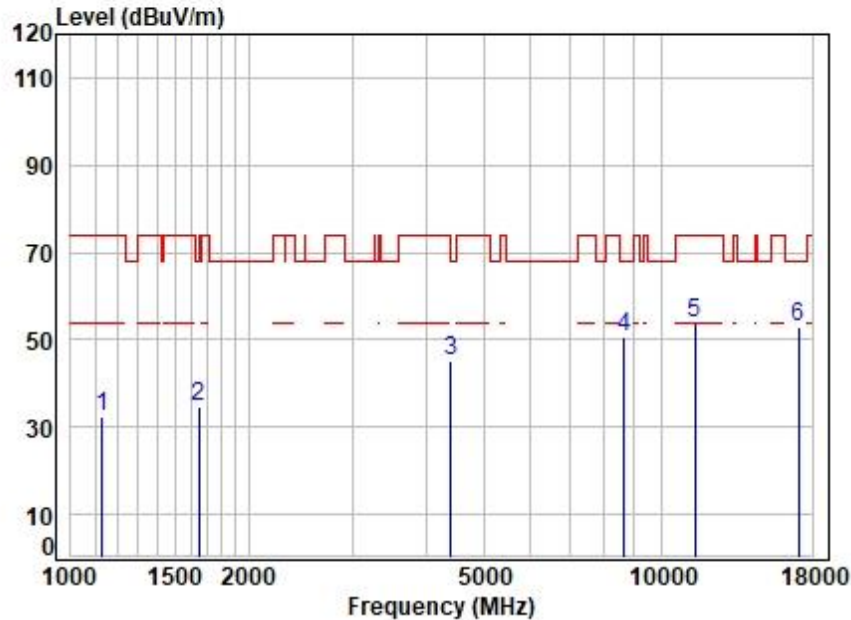
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 74 of 354

Test Mode: 16; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5700 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	2.99	24.24	52.61	57.97	32.59	74.00	-41.41	peak
2	1648.778	4.09	24.90	52.93	58.50	34.56	68.20	-33.64	peak
3	4405.090	7.47	30.07	52.93	60.61	45.22	68.20	-22.98	peak
4	8638.399	9.98	36.13	53.99	58.68	50.80	68.20	-17.40	peak
5	11400.000	11.55	39.68	53.76	56.32	53.79	74.00	-20.21	peak
6	17100.000	14.34	42.14	52.54	48.78	52.72	68.20	-15.48	peak



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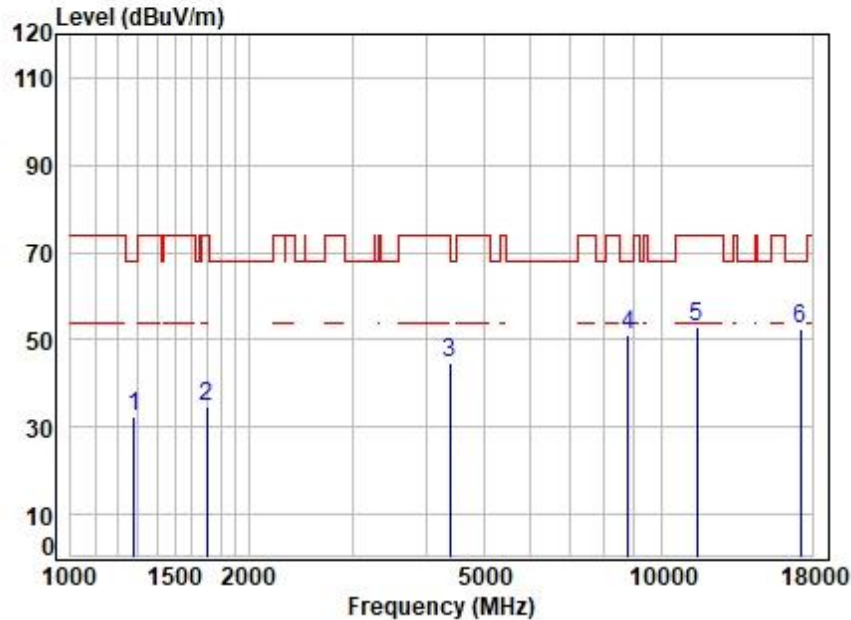
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 75 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.33	24.26	52.72	57.30	32.17	68.20	-36.03	peak
2	1697.129	4.19	25.00	52.96	58.48	34.71	74.00	-39.29	peak
3	4392.376	7.47	30.06	52.93	60.29	44.89	74.00	-29.11	peak
4	8789.516	10.30	36.12	54.08	58.82	51.16	68.20	-17.04	peak
5	11490.000	11.60	39.70	53.80	55.32	52.82	74.00	-21.18	peak
6	17235.000	14.39	42.87	52.46	47.73	52.53	68.20	-15.67	peak



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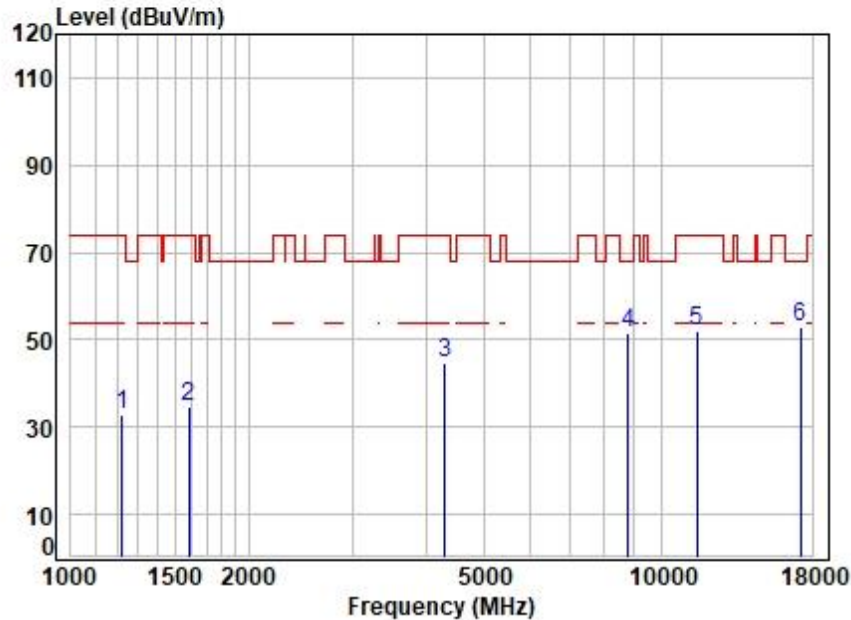
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 76 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1220.714	3.20	24.29	52.67	57.92	32.74	74.00	-41.26	peak
2	1587.975	3.96	24.77	52.90	58.75	34.58	74.00	-39.42	peak
3	4304.400	7.48	29.94	52.90	59.99	44.51	74.00	-29.49	peak
4	8789.516	10.30	36.12	54.08	59.19	51.53	68.20	-16.67	peak
5	11490.000	11.60	39.70	53.80	54.42	51.92	74.00	-22.08	peak
6	17235.000	14.39	42.87	52.46	48.14	52.94	68.20	-15.26	peak



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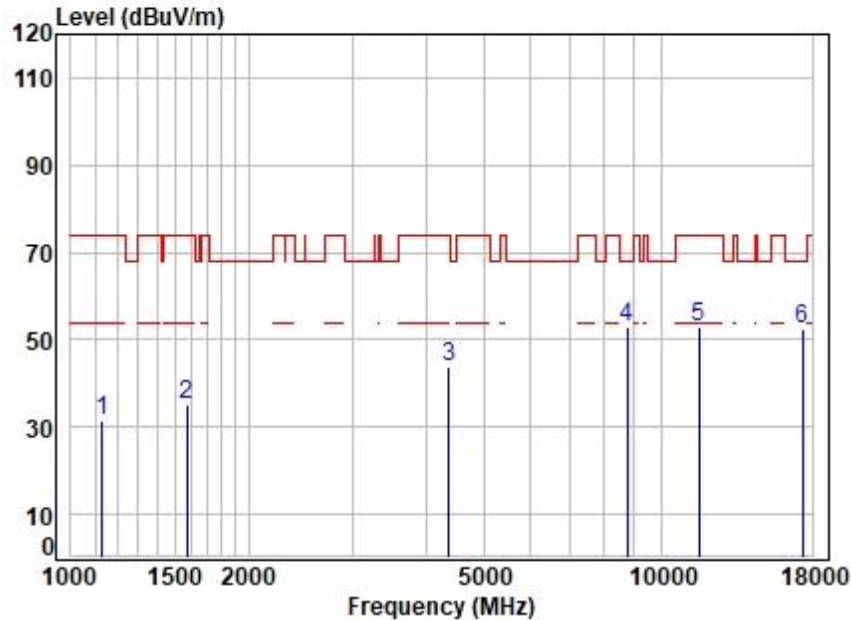
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 77 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1132.340	2.99	24.24	52.61	56.82	31.44	74.00	-42.56	peak
2	1574.265	3.93	24.73	52.89	59.22	34.99	74.00	-39.01	peak
3	4367.058	7.48	30.02	52.92	59.42	44.00	74.00	-30.00	peak
4	8764.146	10.25	36.12	54.06	60.63	52.94	68.20	-15.26	peak
5	11570.000	11.60	39.72	53.83	55.40	52.89	74.00	-21.11	peak
6	17355.000	14.44	43.52	52.38	47.01	52.59	68.20	-15.61	peak



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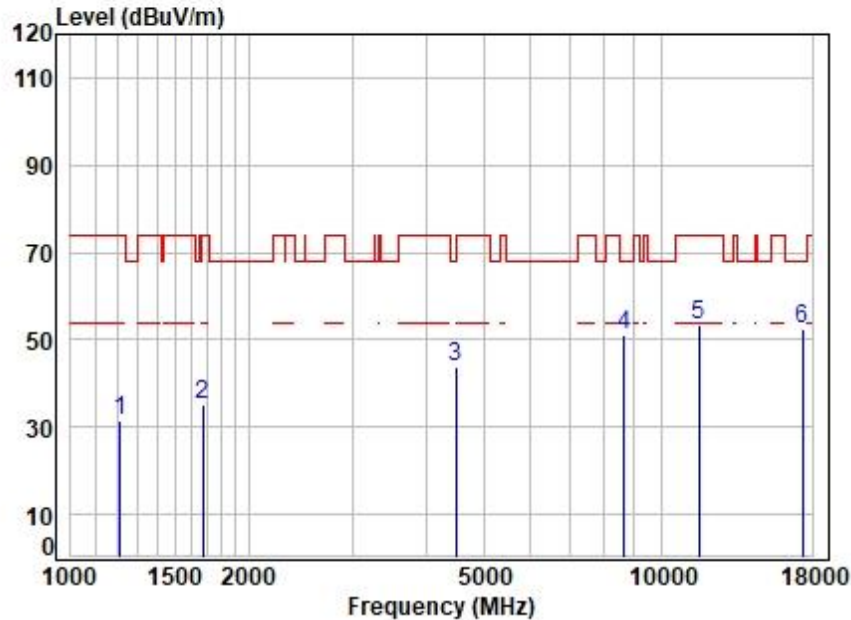
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 78 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.18	24.29	52.67	56.69	31.49	74.00	-42.51	peak
2	1672.779	4.14	24.95	52.95	58.99	35.13	74.00	-38.87	peak
3	4482.150	7.47	30.18	52.95	59.10	43.80	68.20	-24.40	peak
4	8638.399	9.98	36.13	53.99	58.93	51.05	68.20	-17.15	peak
5	11570.000	11.60	39.72	53.83	55.68	53.17	74.00	-20.83	peak
6	17355.000	14.44	43.52	52.38	46.95	52.53	68.20	-15.67	peak



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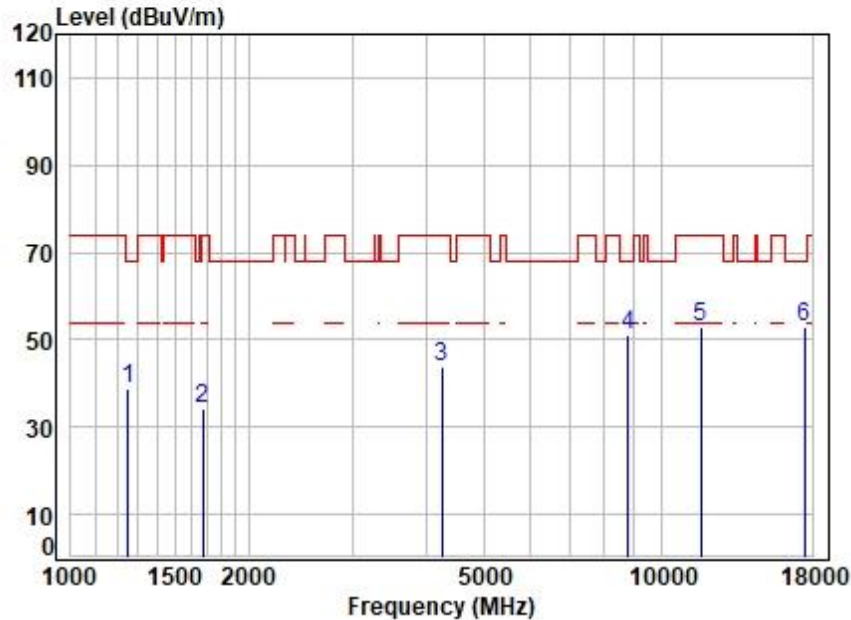
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 79 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.26	24.27	52.69	64.02	38.86	68.20	-29.34	peak
2	1672.779	4.14	24.95	52.95	58.06	34.20	74.00	-39.80	peak
3	4242.641	7.48	29.85	52.88	59.53	43.98	74.00	-30.02	peak
4	8789.516	10.30	36.12	54.08	58.86	51.20	68.20	-17.00	peak
5	11650.000	11.60	39.73	53.86	55.49	52.96	74.00	-21.04	peak
6	17475.000	14.48	44.16	52.31	46.52	52.85	68.20	-15.35	peak



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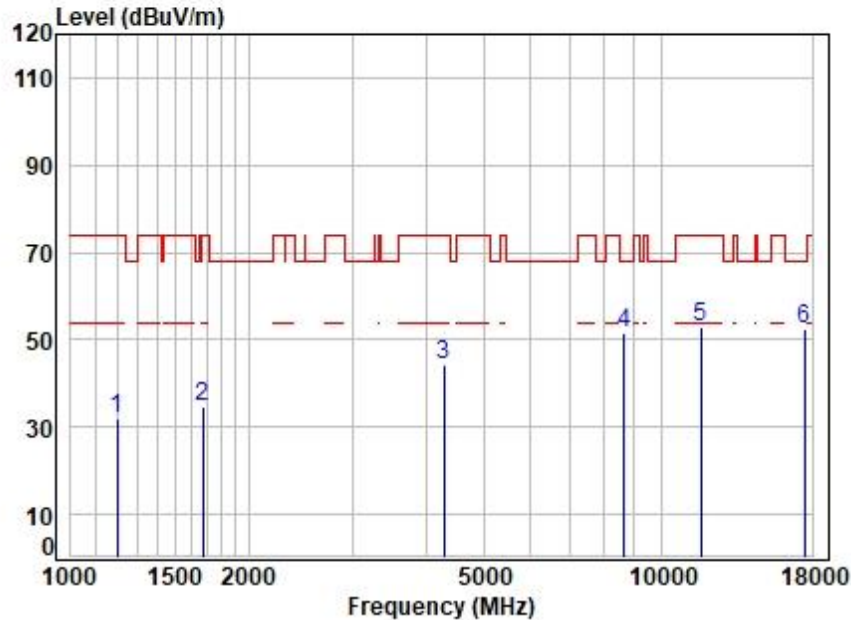
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 80 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.726	3.15	24.30	52.66	57.35	32.14	74.00	-41.86	peak
2	1672.779	4.14	24.95	52.95	58.73	34.87	74.00	-39.13	peak
3	4291.977	7.48	29.92	52.89	59.70	44.21	74.00	-29.79	peak
4	8638.399	9.98	36.13	53.99	59.27	51.39	68.20	-16.81	peak
5	11650.000	11.60	39.73	53.86	55.56	53.03	74.00	-20.97	peak
6	17475.000	14.48	44.16	52.31	46.24	52.57	68.20	-15.63	peak



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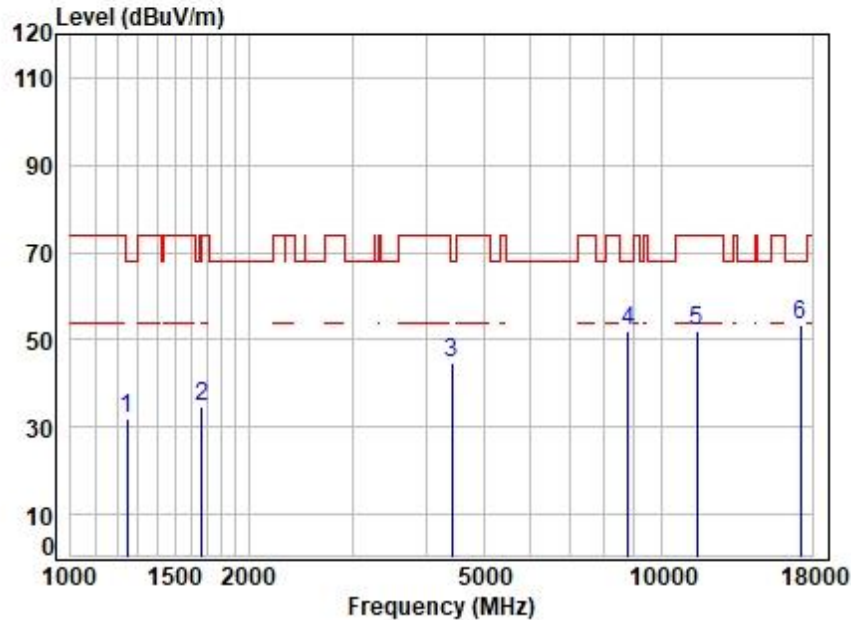
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 81 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.25	24.28	52.69	56.96	31.80	68.20	-36.40	peak
2	1667.951	4.13	24.94	52.94	58.77	34.90	74.00	-39.10	peak
3	4417.841	7.47	30.09	52.93	59.91	44.54	68.20	-23.66	peak
4	8789.516	10.30	36.12	54.08	59.62	51.96	68.20	-16.24	peak
5	11490.000	11.60	39.70	53.80	54.65	52.15	74.00	-21.85	peak
6	17235.000	14.39	42.87	52.46	48.47	53.27	68.20	-14.93	peak



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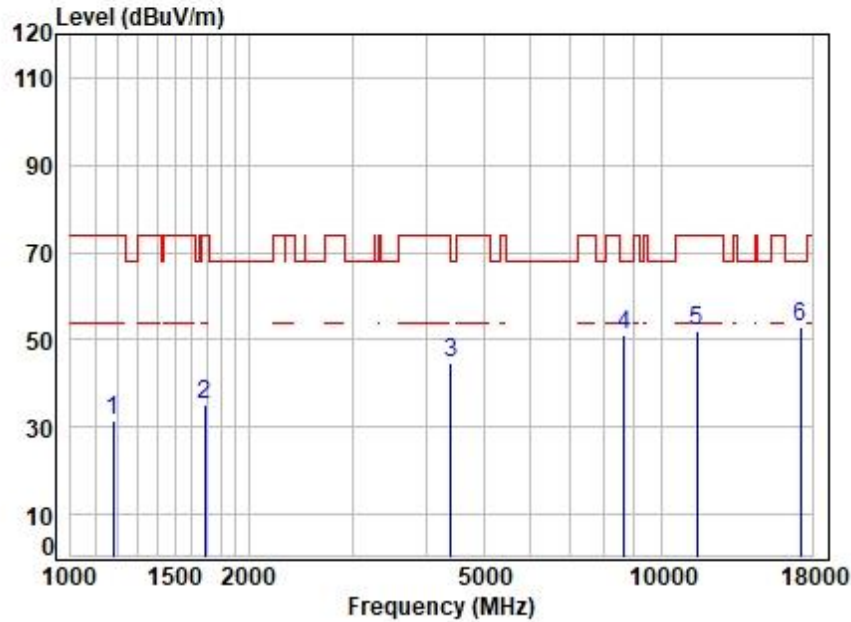
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 82 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5745 TX RSE
Note : 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1179.100	3.10	24.28	52.64	56.73	31.47	74.00	-42.53	peak
2	1687.347	4.17	24.98	52.95	58.97	35.17	74.00	-38.83	peak
3	4405.090	7.47	30.07	52.93	59.89	44.50	68.20	-23.70	peak
4	8663.404	10.03	36.13	54.01	58.94	51.09	68.20	-17.11	peak
5	11490.000	11.60	39.70	53.80	54.62	52.12	74.00	-21.88	peak
6	17235.000	14.39	42.87	52.46	48.22	53.02	68.20	-15.18	peak



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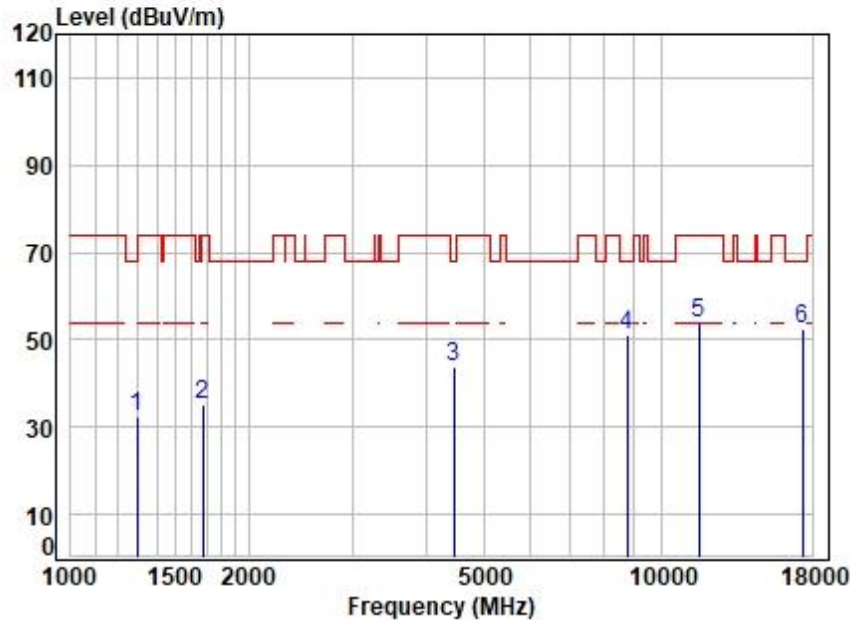
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 83 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5785 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1297.103	3.36	24.25	52.73	57.56	32.44	68.20	-35.76	peak
2	1672.779	4.14	24.95	52.95	58.91	35.05	74.00	-38.95	peak
3	4456.315	7.47	30.14	52.95	59.34	44.00	68.20	-24.20	peak
4	8764.146	10.25	36.12	54.06	58.83	51.14	68.20	-17.06	peak
5	11570.000	11.60	39.72	53.83	56.20	53.69	74.00	-20.31	peak
6	17355.000	14.44	43.52	52.38	46.72	52.30	68.20	-15.90	peak



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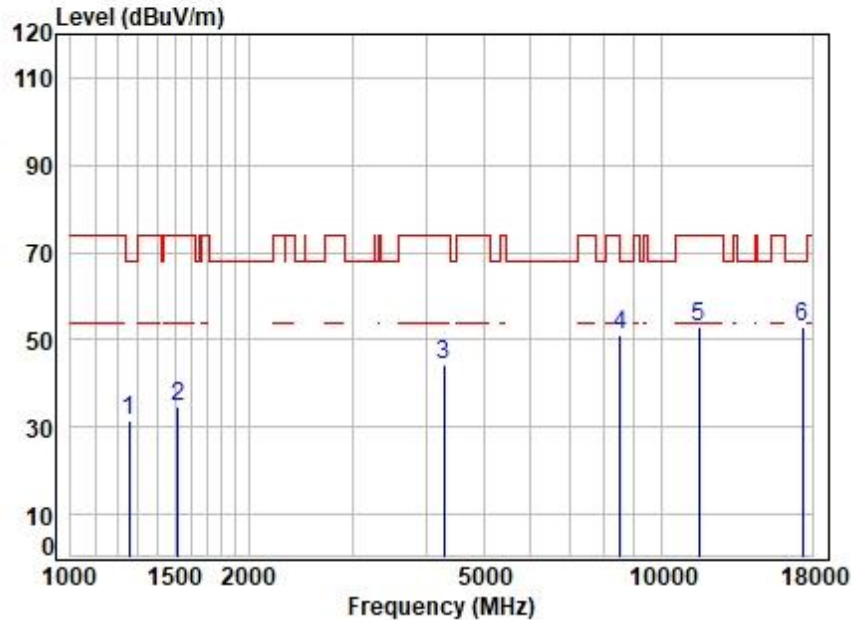
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 84 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00472AT

Mode : 5785 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.28	24.27	52.70	56.58	31.43	68.20	-36.77	peak
2	1520.598	3.82	24.57	52.86	59.23	34.76	74.00	-39.24	peak
3	4291.977	7.48	29.92	52.89	59.93	44.44	74.00	-29.56	peak
4	8514.456	9.70	36.15	53.92	59.34	51.27	68.20	-16.93	peak
5	11570.000	11.60	39.72	53.83	55.22	52.71	74.00	-21.29	peak
6	17355.000	14.44	43.52	52.38	47.21	52.79	68.20	-15.41	peak



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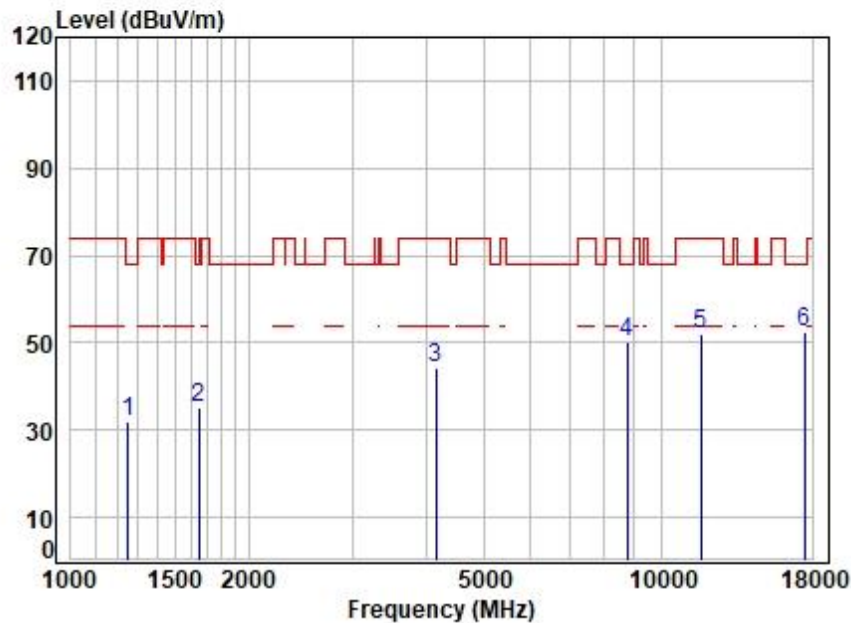
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 85 of 354

Test Mode: 17; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.27	24.27	52.70	56.91	31.75	68.20	-36.45	peak
2	1648.778	4.09	24.90	52.93	59.09	35.15	68.20	-33.05	peak
3	4157.664	7.48	29.73	52.85	60.01	44.37	74.00	-29.63	peak
4	8764.146	10.25	36.12	54.06	57.82	50.13	68.20	-18.07	peak
5	11650.000	11.60	39.73	53.86	54.65	52.12	74.00	-21.88	peak
6	17475.000	14.48	44.16	52.31	46.34	52.67	68.20	-15.53	peak



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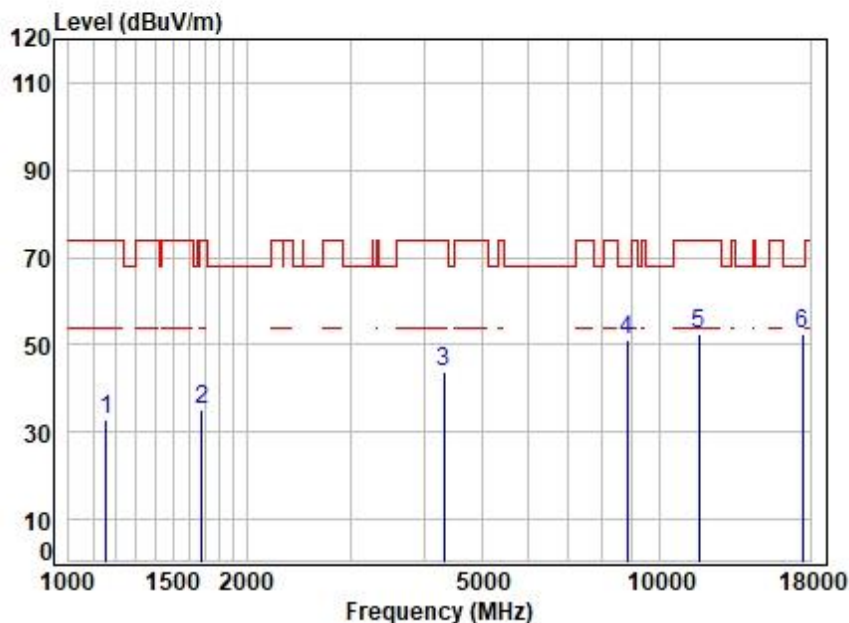
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 86 of 354

Test Mode: 17; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5825 TX RSE
Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1155.483	3.04	24.26	52.63	58.12	32.79	74.00	-41.21	peak
2	1677.621	4.15	24.96	52.95	58.96	35.12	74.00	-38.88	peak
3	4316.859	7.48	29.95	52.90	59.44	43.97	74.00	-30.03	peak
4	8814.957	10.36	36.12	54.09	58.76	51.15	68.20	-17.05	peak
5	11650.000	11.60	39.73	53.86	54.78	52.25	74.00	-21.75	peak
6	17475.000	14.48	44.16	52.31	46.14	52.47	68.20	-15.73	peak



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 87 of 354

7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.9.1 E.U.T. Operation

Operating Environment:



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 88 of 354

Temperature: 21.6 °C Humidity: 46.7 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	09	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	12	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data



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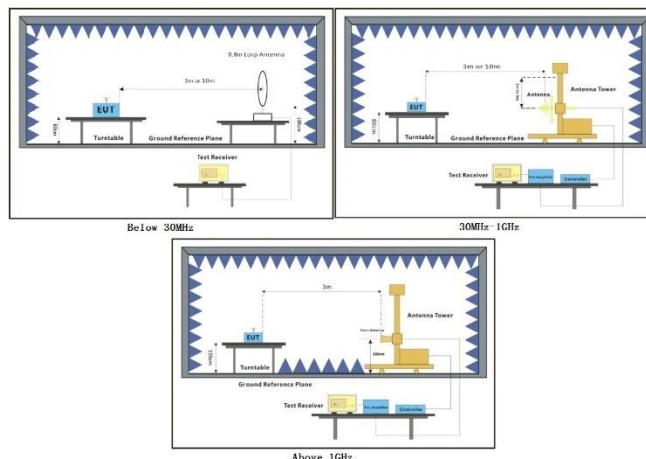
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Report No.: FYCR221100047205

Page: 89 of 354

		of worst case is recorded in the report.
Final test	15	Charge + TX mode (U-NII-2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	16	Charge + TX mode (U-NII-2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	17	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 90 of 354

7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



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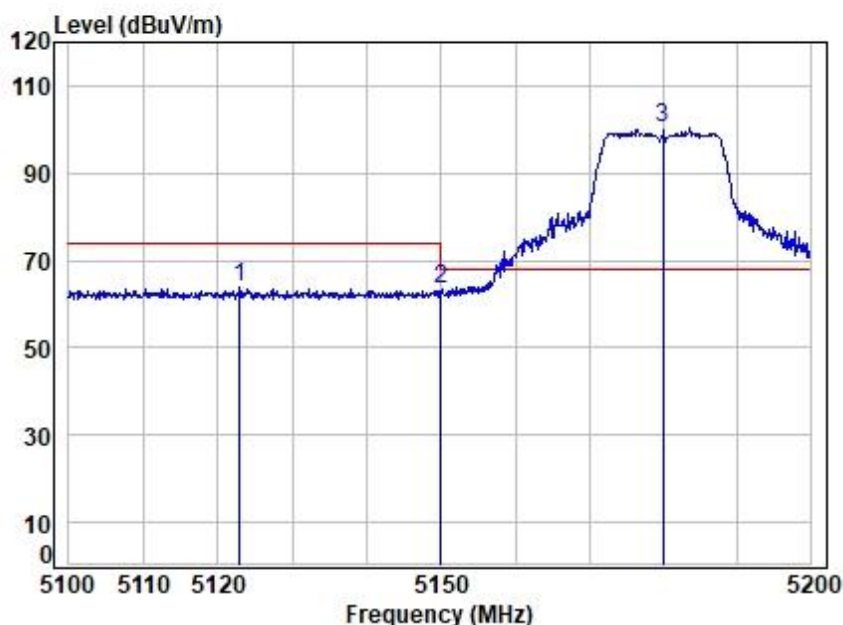
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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 91 of 354



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5122.928	8.29	31.71	31.78	55.87	64.09	74.00	-9.91	peak
2	5149.980	8.29	31.77	31.82	55.27	63.51	74.00	-10.49	peak
3	5180.000	8.29	31.85	31.86	92.07	100.35	68.20	32.15	peak



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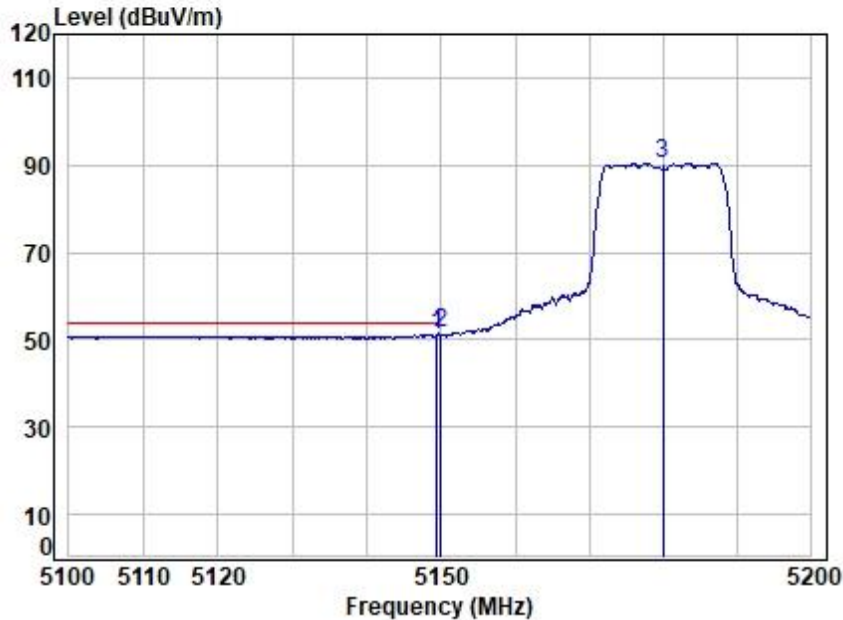
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 92 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	8.29	31.77	31.82	43.06	51.30	54.00	-2.70 Average
2	5149.980	8.29	31.77	31.82	43.17	51.41	54.00	-2.59 Average
3	5180.000	8.29	31.85	31.86	82.16	90.44	-----	----- Average



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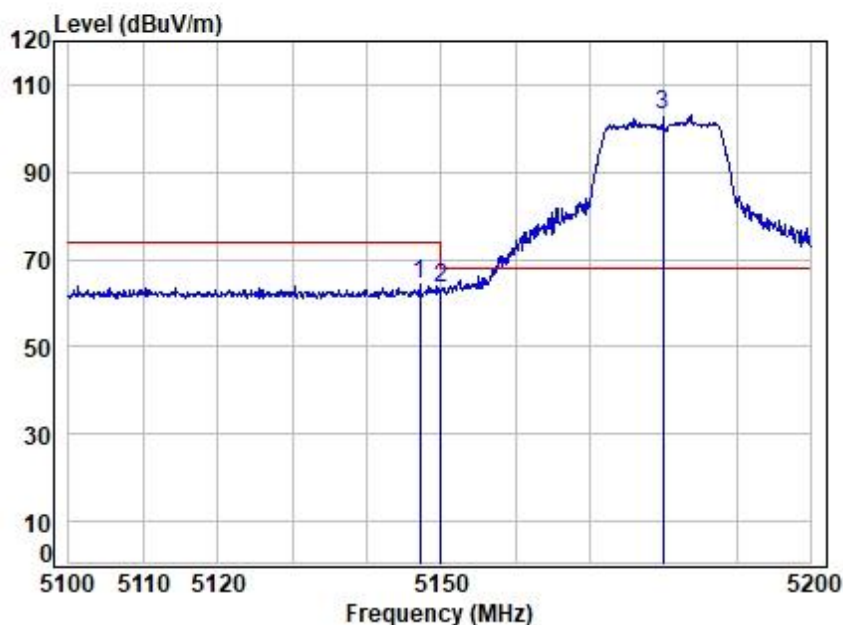
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 93 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.158	8.29	31.77	31.81	55.88	64.13	74.00	-9.87 Peak
2	5149.980	8.29	31.77	31.82	55.21	63.45	74.00	-10.55 Peak
3	5180.000	8.29	31.85	31.86	94.71	102.99	68.20	34.79 Peak



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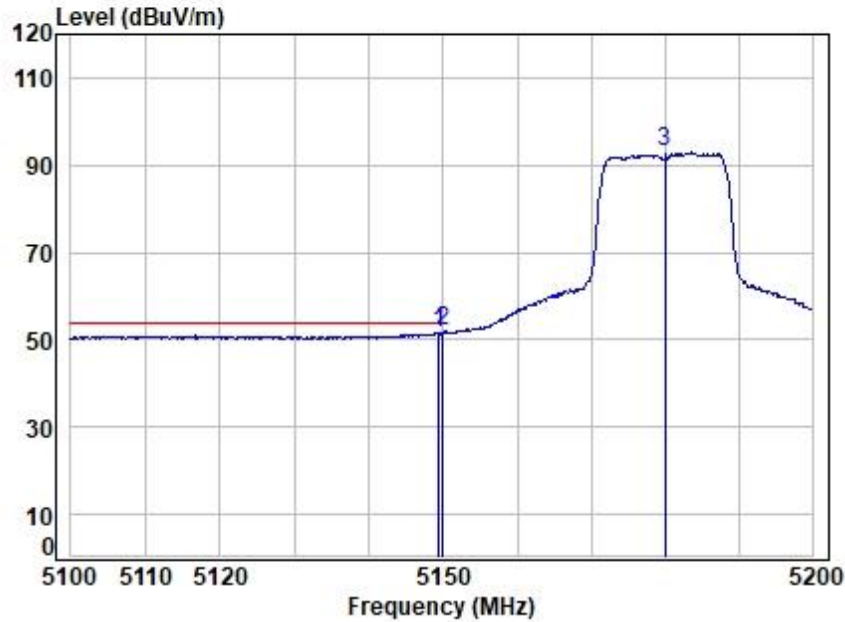
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 94 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00472AT
 Mode : 5180 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.357	8.29	31.77	31.82	43.26	51.50	54.00	-2.50 Average
2	5149.980	8.29	31.77	31.82	43.55	51.79	54.00	-2.21 Average
3	5180.000	8.29	31.85	31.86	84.60	92.88	-----	----- Average



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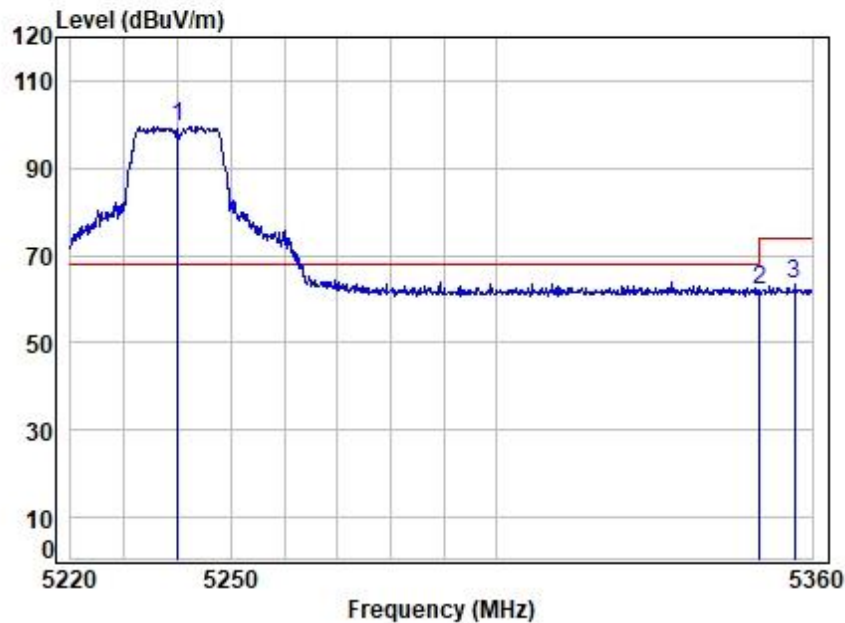
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 95 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5240.000		8.29	31.99	31.94	91.31	99.65	68.20	31.45 peak
2 5350.020		8.28	32.25	32.10	53.54	61.97	74.00	-12.03 peak
3 5356.738		8.28	32.27	32.11	54.76	63.20	74.00	-10.80 peak



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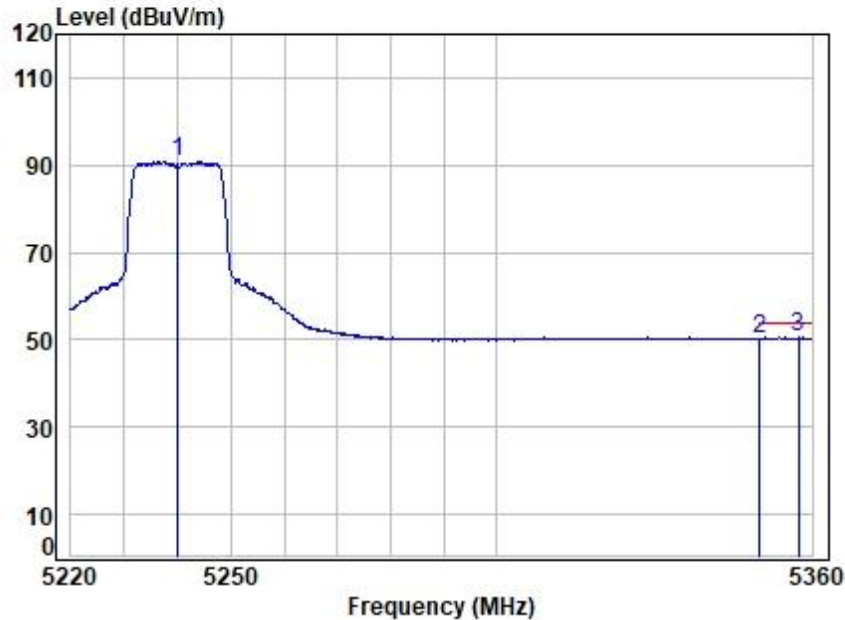
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 96 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	82.56	90.90	-----	Average
2	5350.020	8.28	32.25	32.10	41.77	50.20	54.00	-3.80 Average
3	5357.447	8.28	32.27	32.11	42.07	50.51	54.00	-3.49 Average



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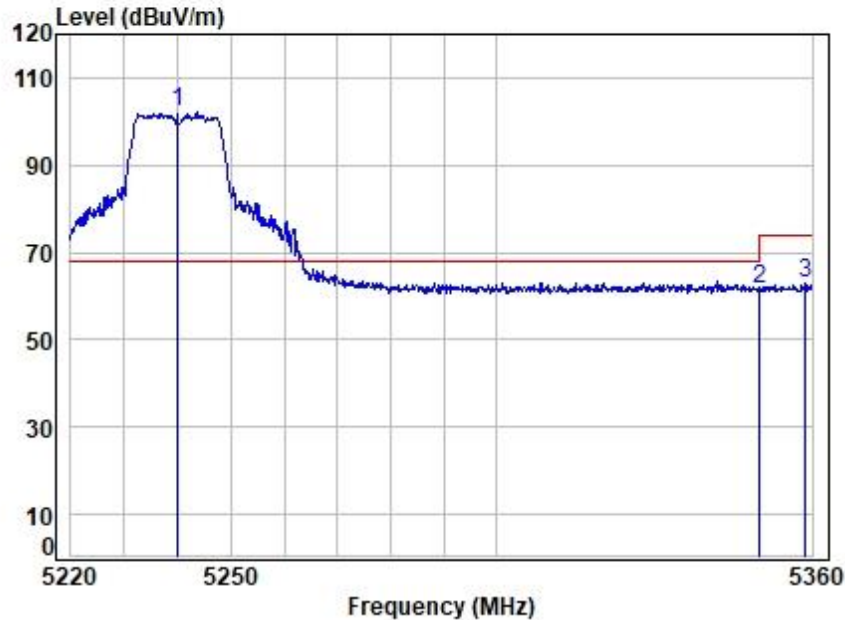
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 97 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5240.000		8.29	31.99	31.94	93.80	102.14	68.20	33.94 Peak
2 5350.020		8.28	32.25	32.10	53.29	61.72	74.00	-12.28 Peak
3 5358.724		8.28	32.27	32.11	54.46	62.90	74.00	-11.10 Peak



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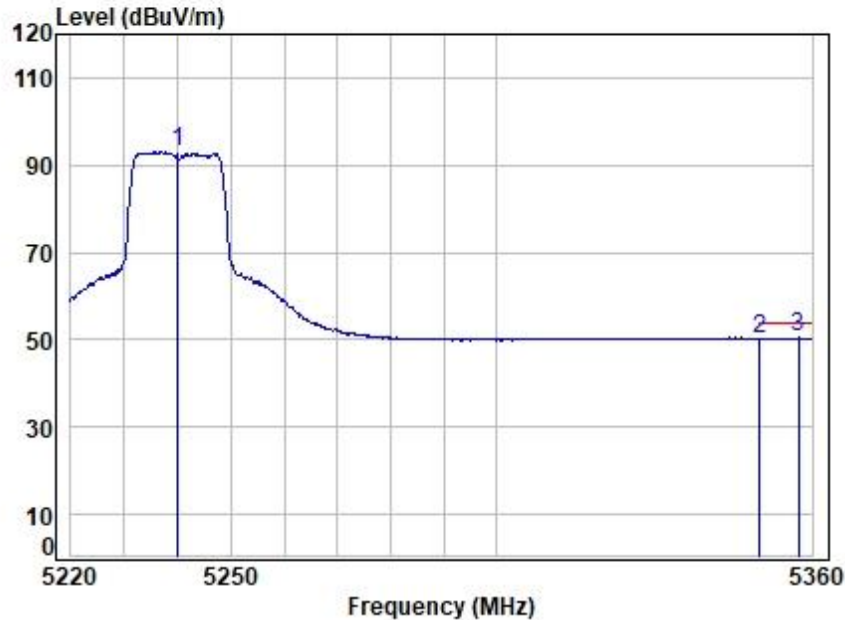
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 98 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	84.59	92.93	-----	Average
2	5350.020	8.28	32.25	32.10	41.82	50.25	54.00	-3.75 Average
3	5357.447	8.28	32.27	32.11	42.01	50.45	54.00	-3.55 Average



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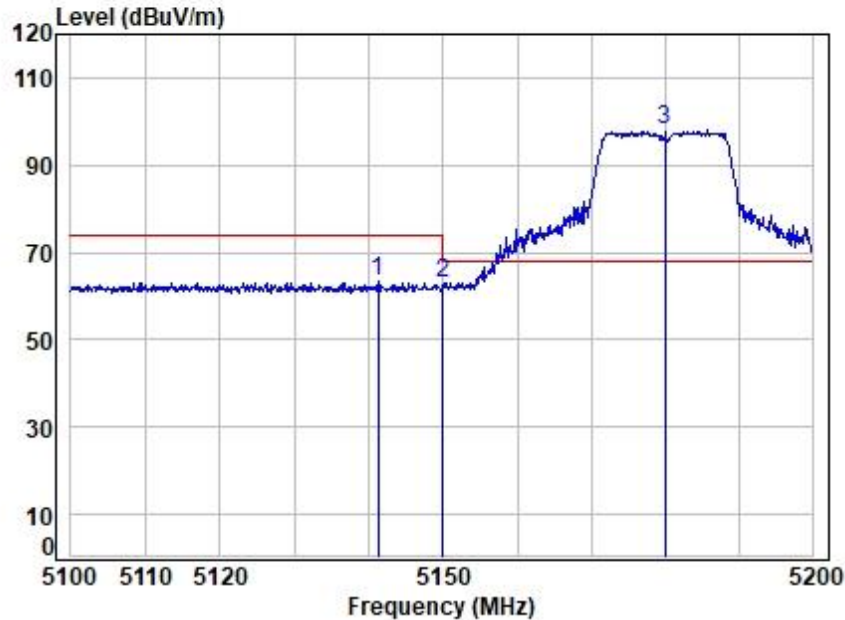
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 99 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5141.265	8.29	31.75	31.80	55.06	63.30	74.00	-10.70	peak
2	5149.980	8.29	31.77	31.82	54.62	62.86	74.00	-11.14	peak
3	5180.000	8.29	31.85	31.86	89.94	98.22	68.20	30.02	peak



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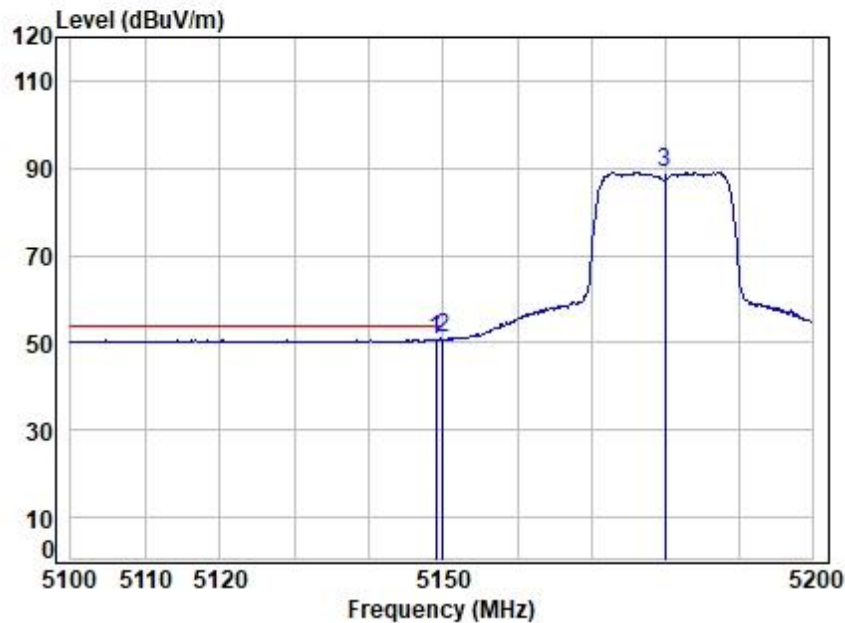
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 100 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	8.29	31.77	31.82	42.56	50.80	54.00	-3.20	Average
2	5149.980	8.29	31.77	31.82	42.64	50.88	54.00	-3.12	Average
3	5180.000	8.29	31.85	31.86	80.86	89.14	-----	-----	Average



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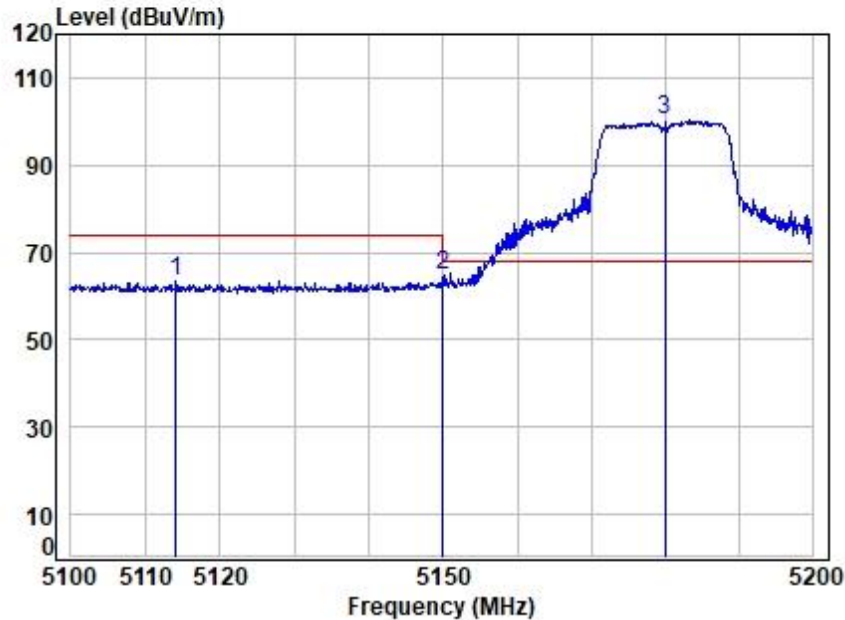
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 101 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5114.082	8.29	31.68	31.77	55.39	63.59	74.00	-10.41 Peak
2	5149.980	8.29	31.77	31.82	56.67	64.91	74.00	-9.09 Peak
3	5180.000	8.29	31.85	31.86	92.01	100.29	68.20	32.09 Peak



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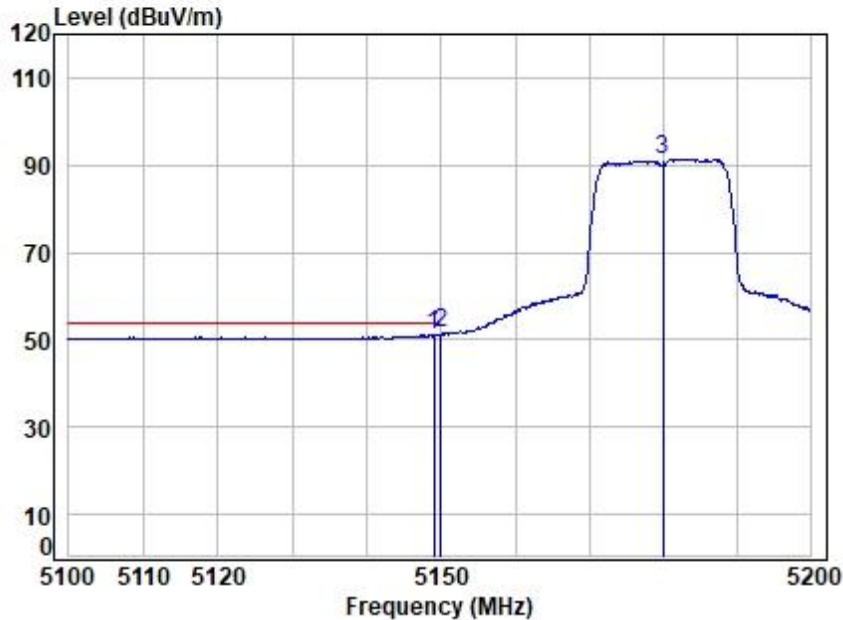
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 102 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5180 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	8.29	31.77	31.82	43.04	51.28	54.00	-2.72	Average
2	5149.980	8.29	31.77	31.82	43.19	51.43	54.00	-2.57	Average
3	5180.000	8.29	31.85	31.86	83.14	91.42	-----	-----	Average



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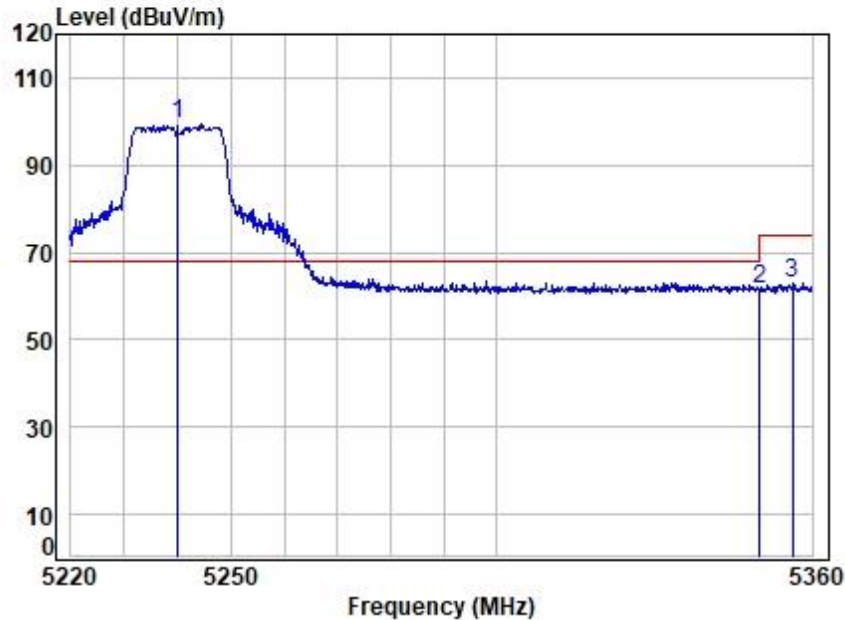
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 103 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1 . 5240.000		8.29	31.99	31.94	91.03	99.37	68.20	31.17 peak
2 5350.020		8.28	32.25	32.10	53.39	61.82	74.00	-12.18 peak
3 5356.313		8.28	32.27	32.11	54.39	62.83	74.00	-11.17 peak



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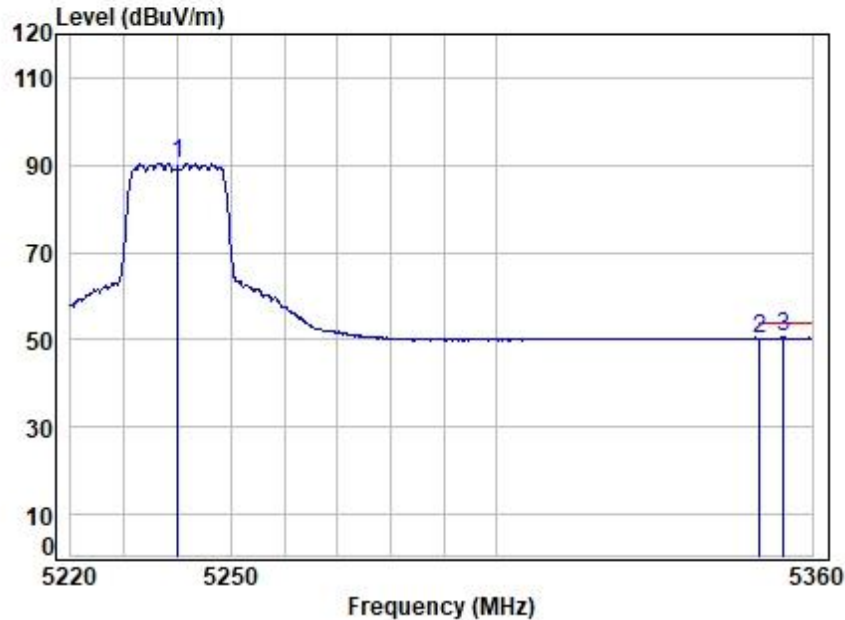
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 104 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	5240.000	8.29	31.99	31.94	82.02	90.36	-----	Average
2	5350.020	8.28	32.25	32.10	41.92	50.35	54.00	-3.65 Average
3	5354.612	8.28	32.26	32.10	42.09	50.53	54.00	-3.47 Average



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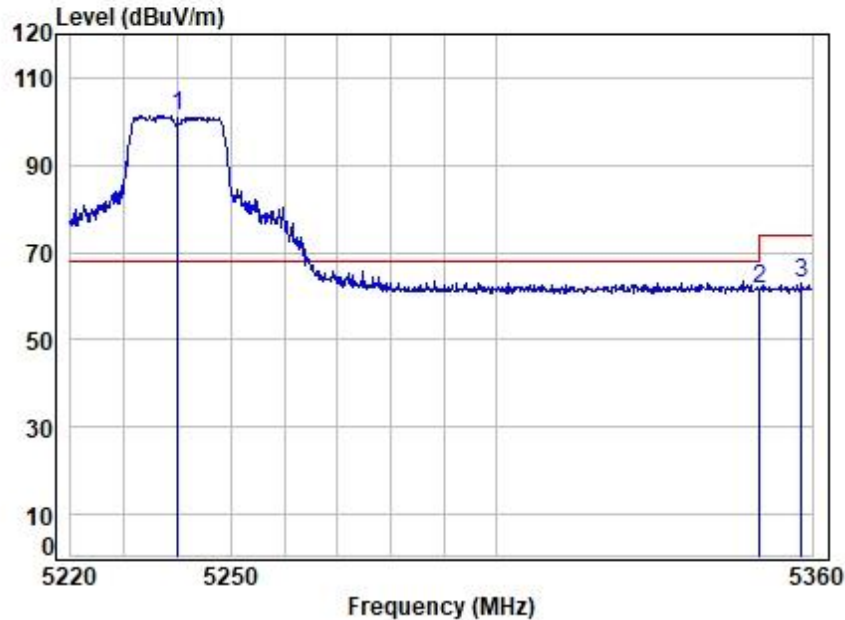
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 105 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 . 5240.000		8.29	31.99	31.94	93.06	101.40	68.20	33.20 Peak
2 5350.020		8.28	32.25	32.10	53.28	61.71	74.00	-12.29 Peak
3 5358.014		8.28	32.27	32.11	54.38	62.82	74.00	-11.18 Peak



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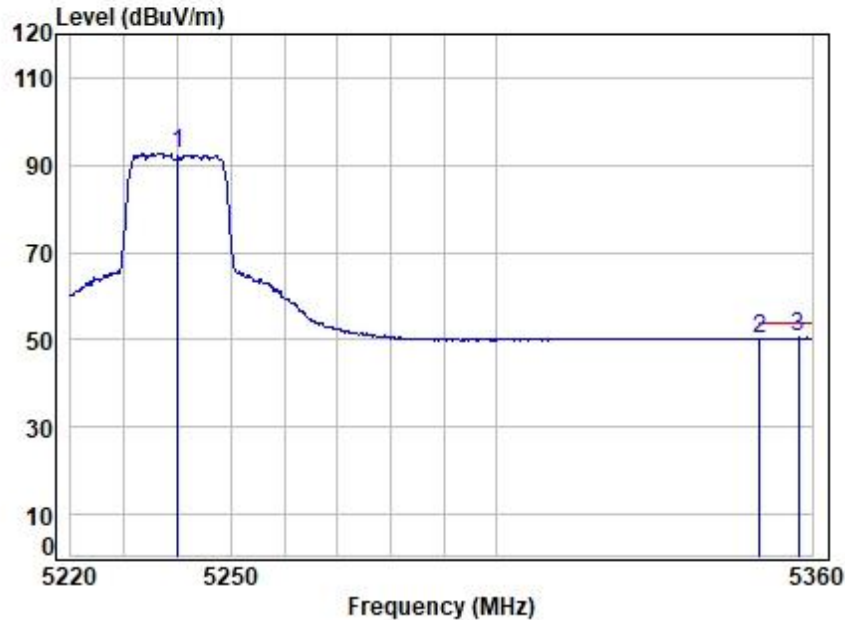
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 106 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5240 Band edge
: 5G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.000	8.29	31.99	31.94	84.37	92.71	-----	Average
2	5350.020	8.28	32.25	32.10	41.86	50.29	54.00	-3.71 Average
3	5357.447	8.28	32.27	32.11	42.00	50.44	54.00	-3.56 Average



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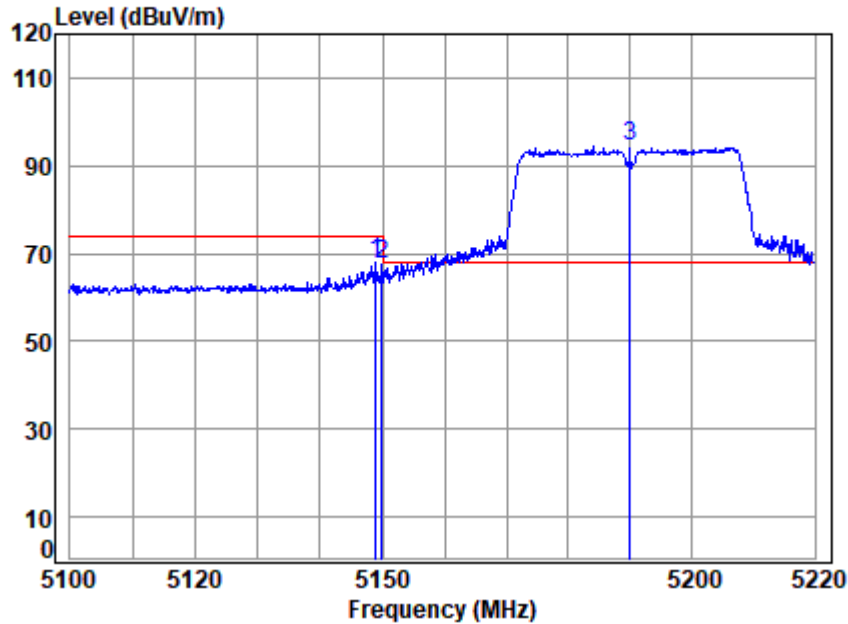
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 107 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.863	8.29	31.77	31.82	59.85	68.09	74.00	-5.91 peak
2	5149.980	8.29	31.77	31.82	59.26	67.50	74.00	-6.50 peak
3	5190.000	8.29	31.87	31.87	86.13	94.42	68.20	26.22 peak



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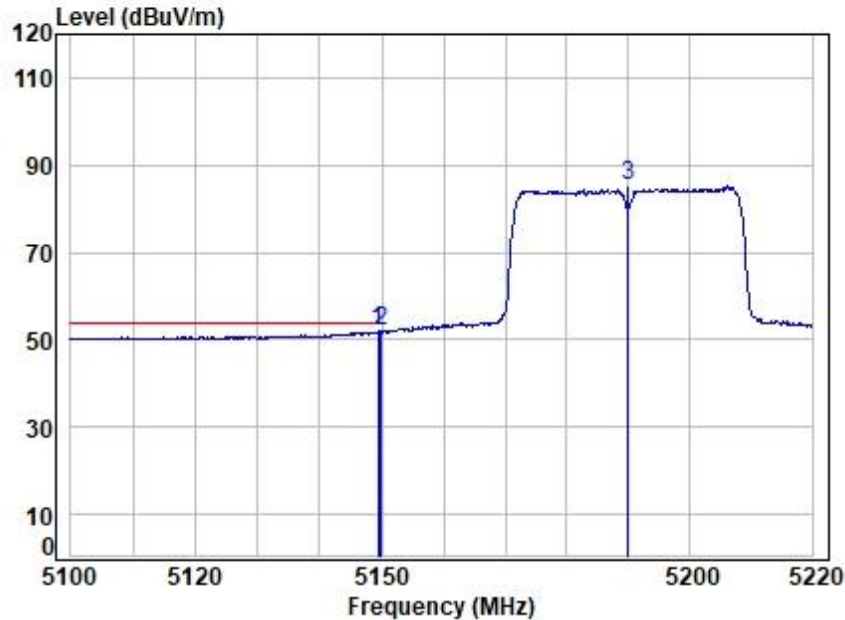
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 108 of 354

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00472AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.461	8.29	31.77	31.82	43.56	51.80	54.00	-2.20 Average
2	5149.980	8.29	31.77	31.82	43.64	51.88	54.00	-2.12 Average
3	5190.000	8.29	31.87	31.87	76.89	85.18	-----	----- Average



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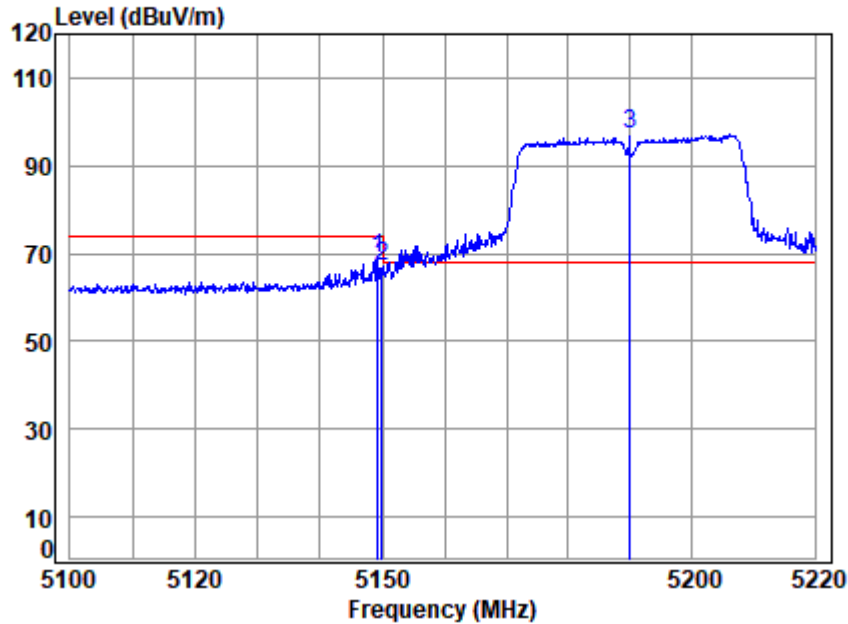
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047205

Page: 109 of 354

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00472AT
Mode : 5190 Band edge
: 5G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.222	8.29	31.77	31.82	60.69	68.93	74.00	-5.07 Peak
2	5149.980	8.29	31.77	31.82	58.83	67.07	74.00	-6.93 Peak
3	5190.000	8.29	31.87	31.87	88.70	96.99	68.20	28.79 Peak



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